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SA-2 WALK AROUND

History and References

ISSUE 224
December 2024

**Model
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**ISSUE
224**

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**IN THE EYE OF
THE STORM**

Trumpeter 1:35 Zil-157
6x6 Truck + SA-2 Missile

DEFENCE OF THE REICH

Das Werk 1:35 E-50 Standard Tank

INSIDE: **BLITZ BUGGY** Tamiya's 1:35 KS600 Motorcycle & Sidecar - Pt. 1
Tankfest Report ■ Incoming ■ Book Reviews ■ 1:48 Scale ■ and more...

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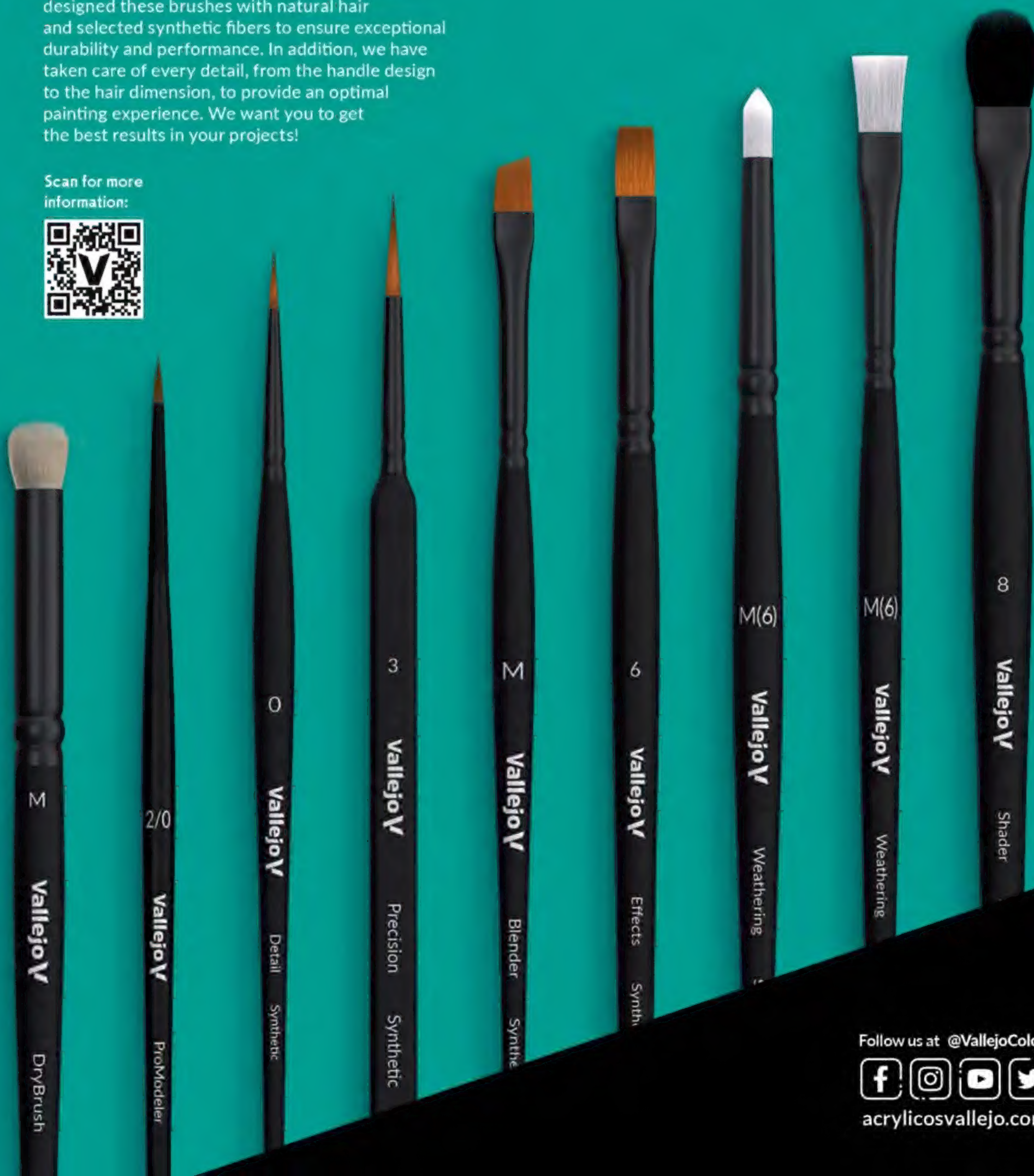
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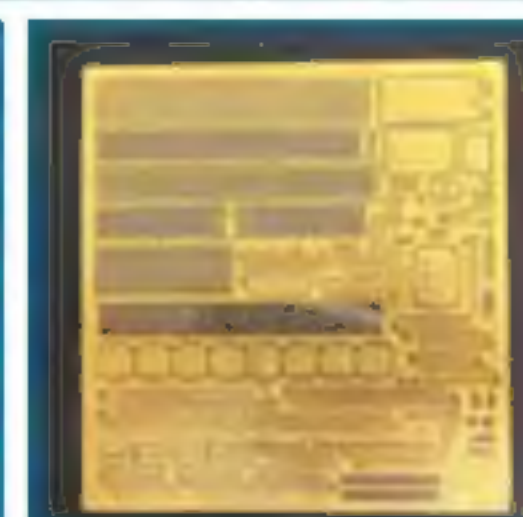
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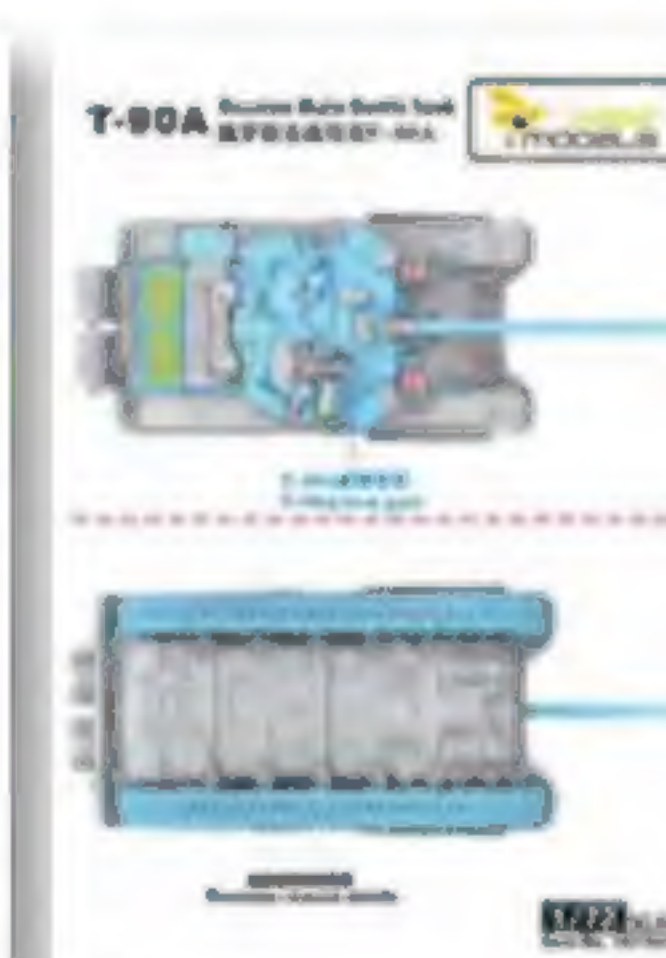
John Ham gets up close and personal at Bovington





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Squadron, Royal Australian Air force, Morotai, 1945.



SUPERMARINE SPITFIRE MK.VIII
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SUPERMARINE SPITFIRE MK.VIII
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Side profile of Polish Zil-157 6x6 tractor unit with PR-11M missile trailer and V75 / SA-2 in tow, this cold war combination is persevered in The Museum of Polish Military Technology in Warsaw, one of a number of military museums in the Polish capital.

SA-2 GUIDELINE CLOSE-UP

The SA-2 Guideline or S-75 Divina high altitude air defence system was an evolution of early Soviet missile concepts. Previous attempts in the field had seen weapons such as the Wasserfall air defence system designed by German missile designers in the dying days of the third Reich.

The deployment of US B-57 and B-52 were seen as very significant threats by the Soviet Union. The Soviet Union had a massive landmass to attempt to protect and the static and expensive SA-1 Guild / S-25 Berkut could only defend Moscow. What was required was a more economic and mobile system that could be moved within and outside the Soviet Union.

In its initial employment the SA-2s were located at 600 sites throughout the USSR protecting vital military, civilian and industrial targets, the number of SAM sites would rise to 1000 by the 1960s. It must be remembered that the SA-2 air defence system was also integrated with large amounts of anti-aircraft guns of various calibre.

After the famous downing of Gary Powers' U2 in 1960, Rudolf Anderson's U2 over Cuba in 1962 and a number of Taiwanese U2s over mainland China all as a result of successful SA-2 intercepts, the demand for the Guideline throughout the Warsaw pact surged.

It was in the Middle East and South East Asia where the SA-2 really made its presence felt.

Very soon Israeli and US reconnaissance

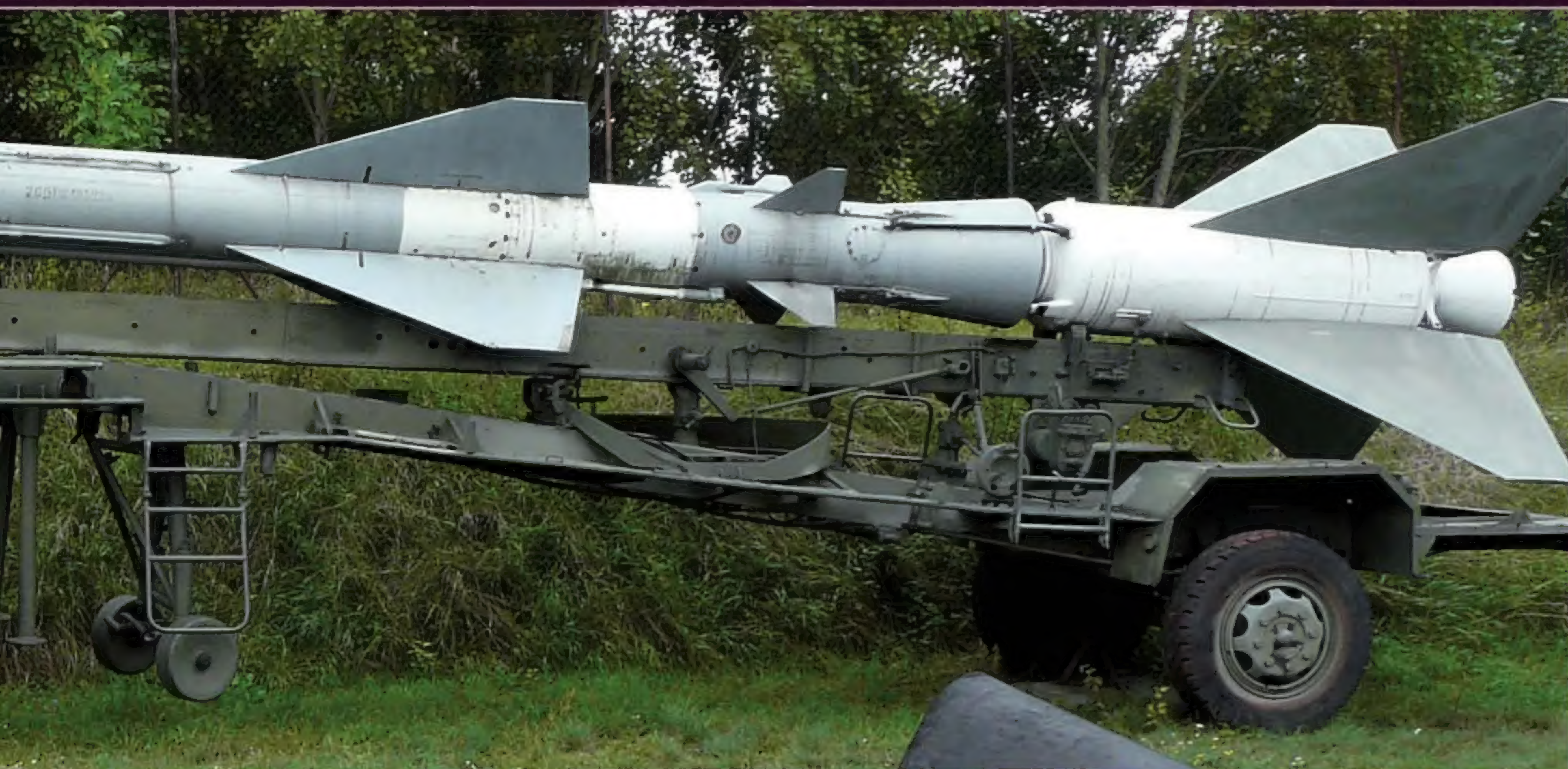
Zack Sex takes us on a guided tour of the SA-2 Guideline missile, Zil 157 6x6 tractor unit and PR-11 missile trailer.

aircraft were returning to base with shots of the tell-tale images of SA-2 launch sites with their circular loop patterns. As part of an integrated air defence system the SA-2 not only covered the high altitude targets, but also forced aircraft down in to lower and medium altitude, where all manner of flak guns could engage them, later SAMs such as the SA-7 and SA-6 would add to this array of Egyptian and Syrian air defences in the 73 conflict.

The V-75 units could still be vulnerable however, with the USAF and IAF using specialist Wild Weasel aircraft armed with anti-radiation missiles to hunt radars and SAMs. Wild Weasels would knock out the radars with Shrike missiles and then cluster bomb the ground crew and missile systems.

The SA-2 batteries came with radar units, control trucks, launchers, trailers and trolleys.

In countries such as Vietnam these support vehicles and specialised equipment required serious camouflage and cover in an attempt to hide this equipment from the Wild Weasels, in the desert sands of the middle east this equipment was more exposed and Arab SAM crews had little such luck. Nowadays the time of the SA-2 as air defence system is pretty much over except for the odd exception like North Korea. Most countries have retired their Guidelines, but some countries like Iran, Yemen and even Serbia adapted their SA-2s in ground to ground missiles with varying degrees of success, Yemeni SA-2s have been updated with various sensors and used against Saudi Arabia, whatever the use it's incredible to think that a missile developed in the late 1950s in Soviet Union is still seeing service somewhere in the world today. ■



The front view of iconic Zil 157 6x6 tractor unit, the front light guards definitely need etched replacement parts, which oddly enough were available in the original Trumpeter Zil 157s but seem to have been discontinued in some of their Zil variants recently.



Side view of the Zil cab, showing some typical dent damage on cab door, typical of that found on such vehicles when conducting off road manoeuvres.



Rear shot of the Zil 157 tractor unit showing one of the spare wheel holders empty along with the rear Jerry can racks.



A rear view of the Zil 157 tractor unit showing the simple layout of this now very old-fashioned design, inspired as most post World War Two Soviet trucks were by US designed provided through Lend- Lease during the Great Patriotic War.



Think Tank - SA-2 Guideline Close-Up



Detailed shot of the spare wheel mounting and Jerry can holders found to the rear of the Zil-157 cab. Of note is the missing fuel tank cap. During the Vietnam these fuel tanks were reinforced with wooden planks.



Amongst the Zil-157 tractor units provided to V 75 Dvina ground units were trailers with spare missile sections in protective housings or containers.



Detail shot of the rear road lights and guide track for the fifth wheel, again simple rugged construction with no frills attached.



A front three quarters view of a well preserved Zil-157 in the somewhat fabulous Lubusz Military Museum in Drzonów (half way between Poznan and Berlin)



A clear shot of the loading ramp or guide track for the Zil-157 fifth wheel for the PR-11M to attach to. Of note are the two rear tow hooks attached to the end of the truck chassis.



Detailed shot of the right hand side Jerry can holder with suitably used Jerry cans and a pair of spare wheels, one with typical Soviet style treads and the other with Polish replacement tires.



A detail shot of the right hand side Zil-157 fuel tank, the trolley cart below the fuel tank is not connected with the truck.



Nice study of the well rusted Jerry cans with paint faded and bleached. Of note is the pattern of Polish produced tire tracks.



A fine study of faded and rusty colouring in the areas of lower cab unit as showing the mix of dark brown and almost orangey red fading into flour white as one might expect to find on old Zil work horse.



The rear of Zil-157 consists of pressed metal sections which are ideal for weathering, rusting and wear.



A rear three quarters view of Lubusz Zil-157, one of many post war vehicles in it's fine collection.



Think Tank - SA-2 Guideline Close-Up



Front view of the Zil-157 KW showing to good effect the pressed metal bonnet, simple hinged windows, front bumper and thin wire light guards.



Detail shot of the right hand side road lights, light guard and distinctive Zil-157 front grill, through which we can see the radiator. In the background we can spot a portable field cooker.



The pressed metal bonnet over the Zil-157 engine bay is raised upwards with a central hinged section, it was not unusual to see the lower section removed in countries such as Iraq, Iran and Egypt during their protracted conflicts.



The lower front suspension unit and its assembly is robust as it needs to be horribly strong to survive off road conditions and dirt tracks, on the model this area is fairly delicate and needs careful assembly to sit properly on diorama surfaces, a few times with Trumpeter Zils I have snapped off a road wheel and had to drill them out and super glue steel wire or pins inside the wheels and suspension units.



A classic study of the Zil emblem and vertical barred grill, the Soviet version has vertical grills openings, while the Communist Chinese variant (also available from Trumpeter) has horizontal lines.



A detailed study of a Polish "Goulash Cannon", a common sight in many Warsaw Pact armies, as well as the German and Red Army. Adequate nourishment to sustain combat and other military activities is a vital aspect of any fighting force.



Detailed study of the right hand side of the Zil-157 front section. Of note are the small side indicators and in this case the empty front winch system.



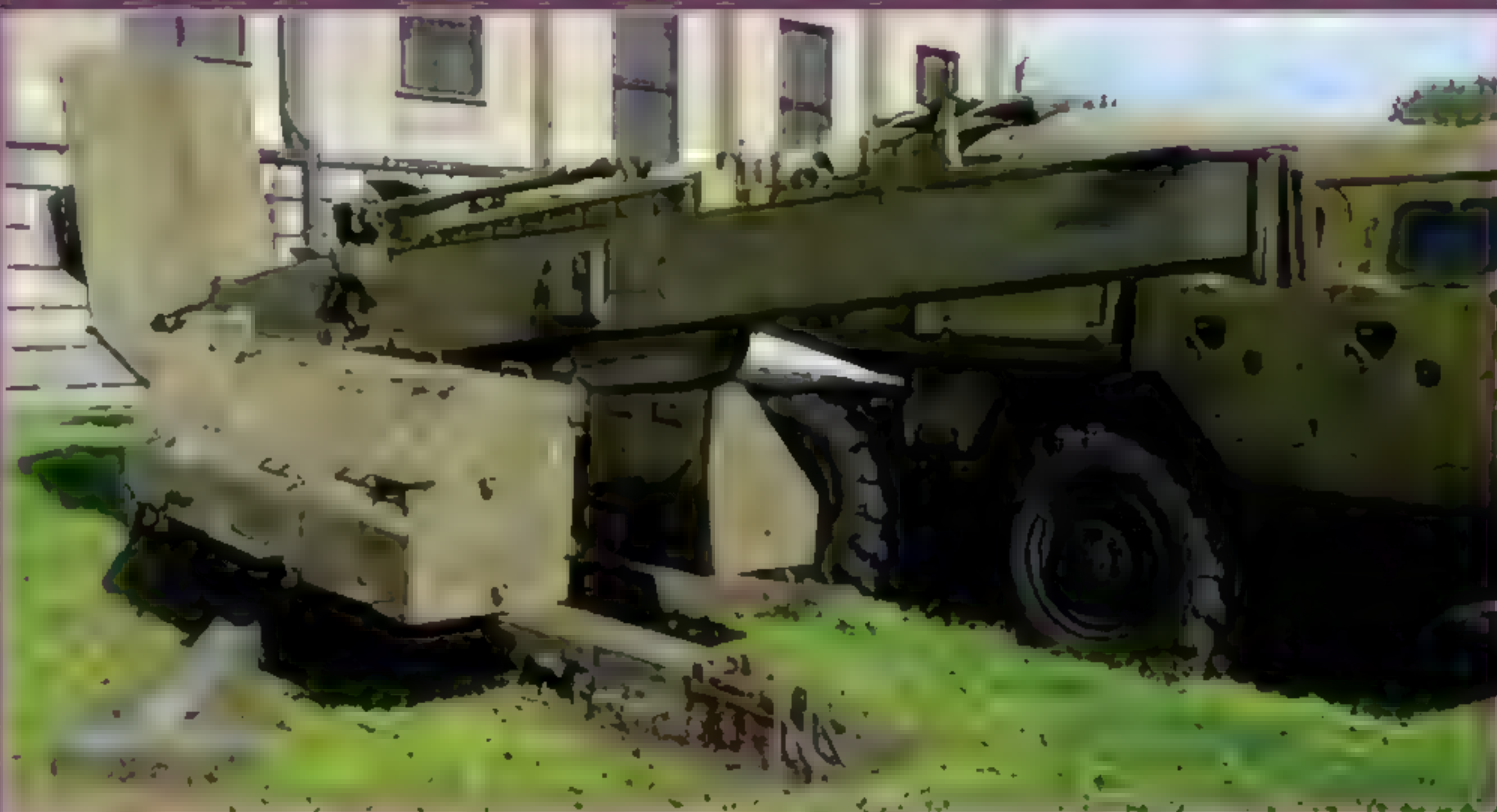
Top shot of the empty winch unit, minus its steel tow cable and hook, which if the Zil got stuck in muddy conditions could be hauled out, tied around a tree and used to pull the vehicle out of the mire.



Along with the standard PR-11M transport trailer, SA-2 Guideline or V75 Dvina units needed smaller manual trailers which could be hauled around or manipulated by teams of ground crew involved in feeding more of these large missiles to launchers during the hectic demand for reloading during multiple launch actions.



An atmospheric shot taken by the author during a visit in Vietnam, showing some Vietnamese school children playing on an SA-2 as it might have appeared in the jungle landscape during the Vietnam War.



A detailed study of the SM-90 launcher unit this has longer stowage containers on the front of the launcher compared to the earlier SM-63 variant, as seen mounted on mobile T55 chassis by Cuban forces in recent years.



Rear three quarters view of V-75 missile booster on a Warsaw museum example. This unit would fall away fairly quickly after launch, leaving the "flying telegraph pole" hurtling towards its target, the Soviets produced numerous variants of the V-75 including a nuclear armed variant.



Detail shot of the rigging on the rear third section of PR-11M trailer where the booster and missile body are connected.



The PR-11M trailer is quite an ingenious piece of work, as missile is sitting on holder frame which when parked up, can be rotated and the ground crew can fairly easily slide the off the holding rail directly on to the launcher rails, without the need for heavy lifting or a crane.



Detail shot of the pivot point on the PR-11 trailer, this unit is not centred midway due to the extra weight of the missile booster towards the rear of the weapon, again simple but effective design.



Think Tank - SA-2 Guideline Close-Up



Detail shot of the rear booster unit of the V-75 missile in its attractive blue/grey fins and winter booster unit finish.



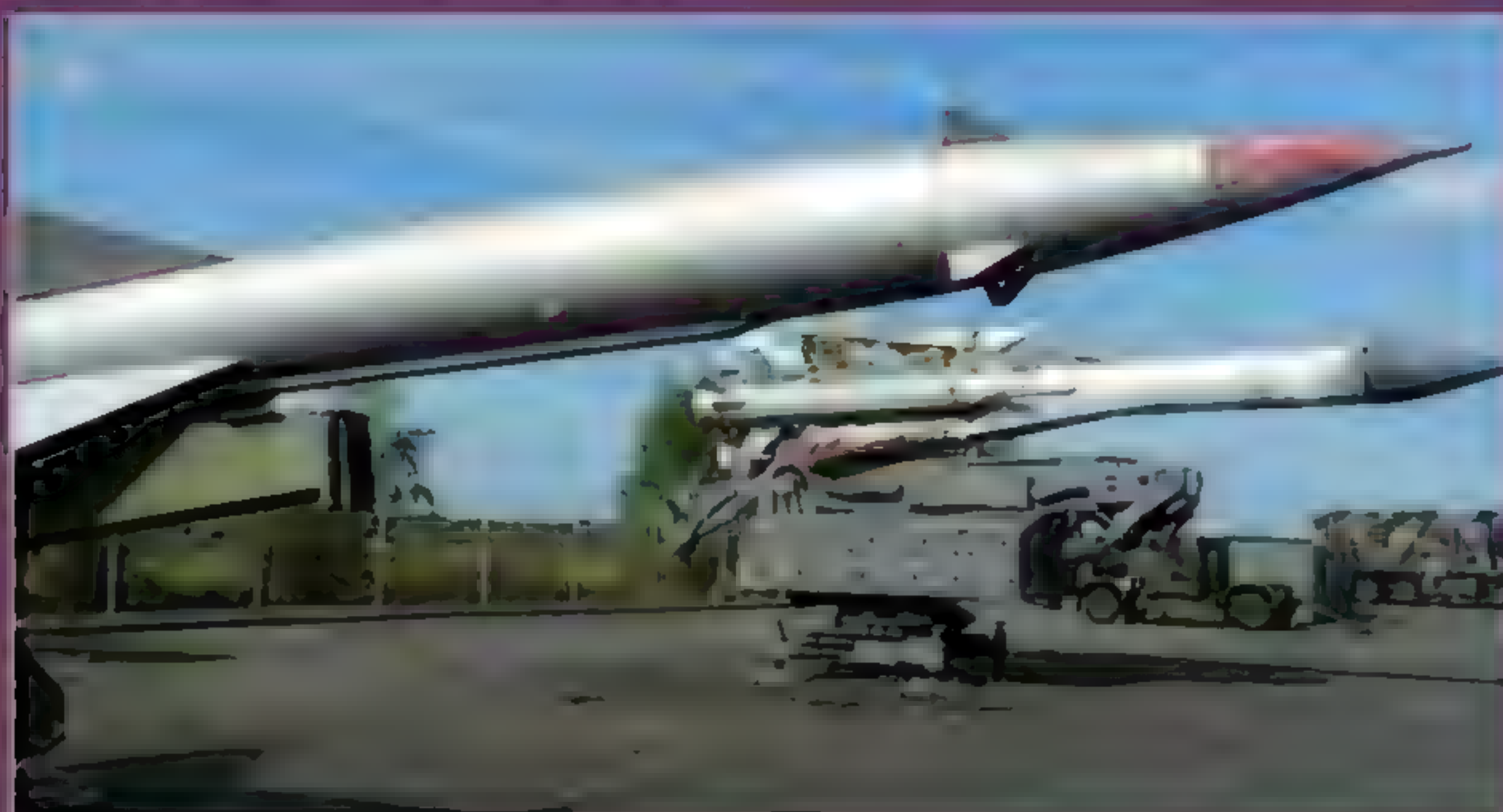
Detail shot of the rear of the actual missile unit itself and various Cyrillic inscriptions.



Front section of the SA-2 missile section and flight fins, on earlier variants of the missile the rear of the fins are 90 degrees or at a right angle to the missile rather sloped seen here.



An interesting comparison with the SA-2 and the later model SA-4 in the Czech republic, the SA-4 was and is a much more powerful high altitude SAM but a number of Syrian examples went off course and landing in a swimming pool in Dimonia in Israel. More spectacularly the Ukrainians knocked out a Russian IL76 AWAC last year and as I write this Iran will be expecting their SA-4s to be heavily tested in the next few days by expected Israeli air raids.



Detail shot of the warhead and guidance system of a former East German SA-2 again with an SA-4 in the background.



A former East German SA-2 in metallic silver with a rather faded and rusty SM-90 launcher based in the Military Aircraft museum in Gatow in Berlin.



Detailed shot of the crew steps and locker hatches on the Berlin based SM-90 launcher unit.



Detail shot of one of two rotating mounts that swing out from the base of the SM-90 when it is lowered from SM-63 11 carriage as seen in the model article included.



A detailed shot below the launcher rail of the SM-90, this pair of pinions are exposed by the shorter length of the SM-63 but partial out of view on the longer stowage boxes on the SM-90 seen here.



An atmospheric shot of not only the old Zil-157 with leafy foliage beginning to obscure but all the old Migs left out to sit out on the grass in Warsaw, a muted testimony to their faded glory days of the Cold War.



LEVEL 3



03791 BAe 146-200 "Atrium", 1:144

LEVEL 4



03805, Westland Lynx Mk.88, 1:72

LEVEL 4



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IN THE EYE OF THE STORM

Zack Sex brings three Trumpeter kits together to create an Egyptian SA-2 Guideline missile launcher on its trailer mount in tow with the ubiquitous Zil-157 truck...

The Yom Kippur war was only on day nine when Israeli forces found a vital gap between the Egyptian Second and Third Armies. This gap was found on the northern edge of the Great Bitter Lake.

It had been nine days of destruction, mayhem and fear for all sides involved in this multi-front conflict, with Israeli forces fighting back not only the Syrian and Egyptian armies but volunteer units from Iraq, Jordan, Libya

and Algeria as well. Most in the IDF been caught completely by surprise when Egyptian forces crossed the Suez canal on the 6th of October and breached the much vaunted Bar Vev defence line. The fact that Egyptian forces then repelled an Israeli armoured counter attack knocking out more than 50 IDF Pattons was also a shock to the Israeli leadership.

New weapons such as the Sagger wire guided missile, the shoulder launched SA 7 and the

Sinai SAM system ready for swift removal as Egyptian third army units try to evacuate Sharon's forces attempting to out flank and cut off the Egyptian third army having crossed over the Suez canal.



tracked SA-6 and Shilka SPAAG took a tremendous toll on Israeli armour and fighter aircraft. Thus the Israelis had a massive problem on their southern front with Egyptian forces, things on the northern front had also looked pretty desperate with Syrian forces attempting to storm the Golan heights with fleets of T-54s, T-55s and even a few SU-100s.

This Syrian Blitzkrieg was chiefly decimated by accurate Centurion tanks from prepared positions

overlooking the aptly named Valley of Tears. With this massive destruction of Syrian armour, Israeli units on the northern front went on the counterattack, forcing the Syrians to plead with their Egyptian Allies to launch a large scale attack from their new positions on west bank of the Suez canal. This Egyptian armoured push failed miserably when it was detected and hammered by Israeli aircraft and armour fire.

Thus we come to the situation

already mentioned where forces under Ariel Sharon crossed back over the canal at the edge of two Egyptian armies at the Great Bitter Lake, chaos ensued on the Egyptian side of the canal as Egyptian SAM sites and rear echelons were confronted by IDF armour and half-tracks all guns blazing. As the Egyptian rear looked like it might collapse and cause the second and third armies might be destroyed or routed, some units tried to save some of

their equipment, while in the air the desperate Egyptian air force, sort of Mig 21s and SU7s, threw trainer aircraft like the L29s into the fight and certain destruction at the hands of Israeli AA and SAM crews.

This is what hatched my idea of producing this model, somewhere to the rear of the fighting in an Egyptian unit moving its SA-2 Guideline to safety, not on its correct road trailer but on an SM-63-11 SAM site tow trailer.

The idea for this model came from images of launch trailers and missile trailers captured by IDF units during the 1973 war, to this end I combined the both the Trumpeter SA-2 kit and the Trumpeter SA-3 carriage system.



Mounting the SA-2 Guideline on the SA-3 trailer creates a fairly large and dynamic composition, which could be a model in itself. The combination of Trumpeter parts took a little chopping and changing but no major constructional changes.

SELECTION AND CONSTRUCTION

The idea that I had in mind was based around some photos I had found on the Internet of an SA-2 Guideline missile and launcher on an SM-63-11 trailer unit in what I presumed was a US facility.

The three items looked fairly worn out and grungy, and I wondered if it had been retrieved from somewhere like Iraq.

The missile on this set up on its own looked pretty cool, but I thought I built it being towed by either an Israeli tractor unit, after capture or an Egyptian Zil-157 it would really set it off.

The first thing I had to get all the pieces in place, as I had a Zil and SA-2 in my stash I only needed a SM-63-11 trailer. This unit until recently was only available in resin, but then Trumpeter brought out the SA-3 Gao on the same unit in plastic, so it was a no brainer.



The flying telegraph pole as it was referred to by US pilots during the Vietnam air war is a long piece of kit even in 1:35 scale, and this is the model without the rear blast plate.

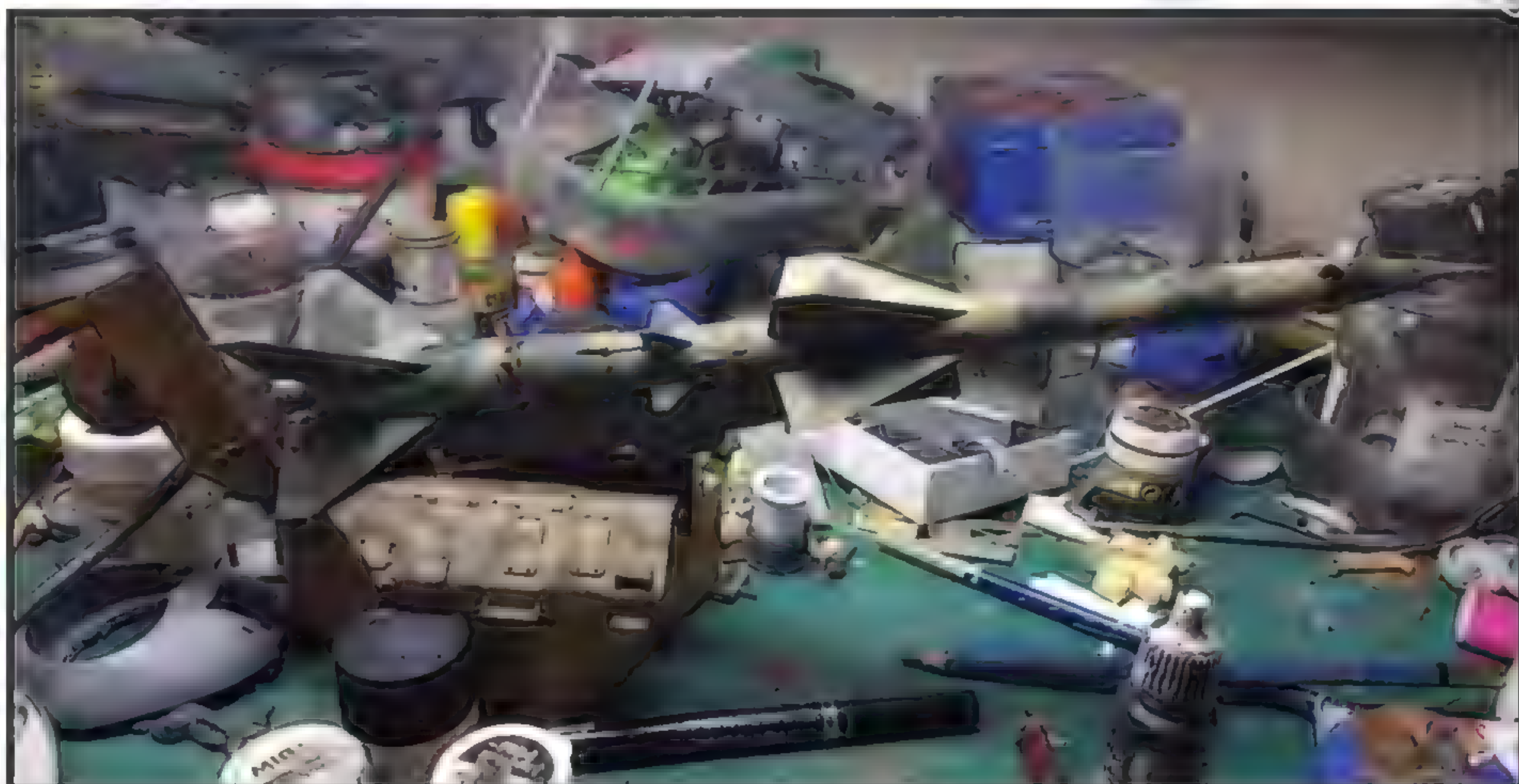


Top shot of the empty SM-63-11 trailer and Guideline launcher, over which I was determined to apply various layers of filth, wear, tear and stains along with speckling and sponge work.

The SM-63-11 trailer with the SA-2 launcher, this started as the centre piece of this project, at one point I was going to just have this unit being towed away by an Israeli Diamond T tractor unit.

With a little cutting and fitting the Trumpeter SA-2 missile launcher fitted onto the SA-3 transporter trailer. Next I assembled the Trumpeter Zil-157 kit. This one has been around a while and again was a fairly straightforward build as you expect with most of their kits. I added a few timber beams into the rear cargo compartment but that was it.

Having sprayed a basic Egyptian camouflage on the Trumpeter combination it was time to destroy the clean paint job with a mix of enamels, pigments and artists water soluble colouring pencils. Of note is my extremely messy work space, I find this mayhem helps greatly in terms of generating ideas and a certain urgency to get things moving along, so you can go back downstairs and reward yourself with a beer having achieved some minor goal.





Detail shot of the front wheels of SM-63-11 trailer midway through the speckling and staining process, this part of the project is always my favourite and involves a lot of going back and forth, reworking areas, trying different tones etc.



Detail shot of SA-2 Guideline launcher rear blast shield, this area was painted in overall enamels and acrylic washes, but the main finish effects were sponge work and brush splattering effects finishing off with some 6B pencil highlights or rubbing.

WEATHER WORN AND WEARY

The next major step was spraying and weathering the launcher, trailer and truck. I wanted all three items to look worn and weathered in the style of so much Arab military of the not just the 1973 war but of conflicts such as the Iran Iraq war and the more recent Syrian civil war.

The schemes where desert sand and green not only gets worn and bleached out by harsh desert conditions but is also neglected by their crews. With this in mind I had a fair degree of latitude in the effects I wanted to inflict on the set models.

My starting point for all three was Humbrol desert sand out on a can. Over this I sprayed small patterns of light green XF-67 on the Zil and dark green larger patches on the SA-2 missile. Over all items I sponged printed light sand tones mixed with darker shades speckled on made up of a mix of flat black and raw umber.

On the base of all of the vehicles I brush splashed Wilder pigments, of which I used about four different types including dry mud and European dust, over this I used the last of my Mig productions desert sand. As mentioned already I used a simple sponge printing or dabbing technique to add depth and a hint of rust and wear to the sand finish, while springing on some AK sand over the green camouflage looks like the appropriate wear and tear that desert sand storms would generate. Mig productions pigments were also added to the cargo bay, along sections of wood for a bit more realism.



The next step in this project was the production and painting of an appropriate Zil-157 or "Zaxar" as it was referred to in Soviet slang meaning "Zachary" who knew?

The Egyptian Zil-157 was one I had in box for a number of years, with the engine bay cut away, to this end I added parts (seen in grey plastic) from a more recent Zil-157 that were spare. Here we see the kit prior to painting with tissue used to fill the painted cab interior.



Detail shot of the Zil-157 cab complete with new parts and cab window masking sections, these are a really useful addition provided in Trumpeter kits and only need a bit of careful aligning to be completely effective.



The first stage in painting the Egyptian Zil is priming and painting the vehicle in Humbrol desert sand straight out of the can, a suitably primed canvas for later work and additions.



The next step was the addition of suitably pale green as seen applied to Egyptian Zils and other military vehicles in the 1970s. This consisted of a blend of Tamiya Green XF-67 and sand diluted with Tamiya thinners. Of note is light application of earth pigments in the rear cargo bay and around the front mudguards, I tend to jump back and forward even during early stages of painting to experiment with different effects and try them out before further building on an idea.



A front three quarters view of the Egyptian Zil-157, with sand and mud pigments around the wheels and tires but the simple sponge effect using dark brown paint gives the model a more realistic edge.



A bit of dark brown sponge work on the left side of the Zil goes a long way...less is more with this effect. The addition of the driver's window being open is another little touch of scale realism I enjoyed adding.



The sheer length of this three part build and diorama made it a little cumbersome but I managed to get it to fit in my light box, all in all I must say I enjoyed taking this idea on and seeing it to fruition.

With most of the pigment and paint work complete on the Zil-157 it was time to mate it up to the SA-2 and trailer. The result is a rather long and sandy composition.





Detail shot of a bit of sponge work, this effect is something I sometimes forget to utilize in the heat of the moment, but is extremely simple a wide range of sponges will do, tear off a small piece dip it in your paint solution, dab off excess paint on dry paper and then proceed to gently pat down the relevant surface areas of your model.



Having worked over areas sand camouflaged areas of the model with dark brown sponge work, I now sponged on AK sand acrylic on the light green camouflage areas, for a nicely distressed look.

◀ **BASING IT ALL ON REALITY...**

The last step in the project was building an appropriate base that would knit the whole thing together. For this I built a simple desert base on a section of Styrofoam which edged off with mounting card (more on these



simple additions later) given a coat of plaster and grit. This was then sprayed with Humbrol Desert Yellow and the side mounting card sections painting with acrylic black. I added an Egyptian tank figure to the edge of the base for a touch of scale and human interest. I also gave the lower chassis of the trailer and truck a light blast with sand spray to blend it with the base.

CONCLUSION

I enjoyed this project. Conjuring up the desert diorama was something I had wanted to do for a while now. I think I'll probably have a go at a few more soon, an Iraqi Type 653 ARV towing a captured Iranian M60 perhaps. Until then stay safe and enjoy your modelling. ■



The Zil-157 and SA-2 in transport mode are now ready to be planted down on a proper lump of suitable Sinai desert, a suitable rectangle of Styrofoam is all that is required.



The Sinai base was constructed using Styrofoam contoured with a cigarette lighter, wet plaster and grit applied on top and framed around the edges with mounting board. A Miniart tank figure from their Arab tank crew in 1973 also adds a nice detail and sense of scale to the scene.

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BLITZ BUGGY

PART ONE: ASSEMBLY

The Editor uses Sol Model Factory's upgrade set on Tamiya's all-new 1:35 scale KS600 Motorcycle & Sidecar.



Adapted from Wikipedia - <https://en.wikipedia.org/wiki/Zündapp>



Zündapp was a major German motorcycle manufacturer founded in 1917 in Nuremberg by Fritz Neumeyer, together with the Friedrich Krupp AG and the machine tool manufacturer Thiel under the name "Zünder- und Apparatebau G.m.b.H." as a producer of detonators (Zünder- und Apparatebau is German for Igniter and Apparatus).

In 1919, as the demand for weapons parts declined after World War I, Neumeyer became the sole proprietor of the company, and two years later he diversified into the construction of motorcycles.

Following World War II, Zündapp expanded into the microcar, moped and scooter markets. The company collapsed in 1984.

The Zündapp KS600, first released in 1938, had a 28 hp (21 kW) horizontally opposed twin cylinder motor with overhead valves displacing 597 cc (36.4 cu in). The KS600 was often coupled with a Steib sidecar, the BW38 (Beiwagen 1938). The BW38, fitted with the B1 (Boot no. 1) sidecar body was produced between 1938 and 1941 and supplied exclusively to the Wehrmacht.

While the KS600 was

discontinued and eventually replaced by the purpose-built KS750, its motor was to be the only remnant to live beyond the destruction of war. When Zündapp returned to motorcycle production in the late 1940s, it chose to reuse the KS600's motor to power the KS601 with few modifications. Adapted from Wikipedia - <https://en.wikipedia.org/wiki/Zündapp>

IN THE BOX

Tamiya has added to its range of 1:35 scale motorcycles with this brand new KS600 Motorcycle & Sidecar.

Although Tamiya is a bit shy with the branding of the bike, I can confirm that this is a Zündapp.

The kit comprises 65 parts in dark grey pieces on two sprues covering the assembly of the motorcycle and sidecar, and another 34 parts in medium grey coloured plastic with three figures and related accessories. Markings for five number plates plus the instrument dial are included on the small decal sheet.

Six road signs are printed in colour on the box side if you want to create an instant vignette.

Detail looks good and the modest number of parts will guarantee a

fast and trouble-free build.

The wheel spokes are a bit on the heavy side but I am sure that we will see photo-etched or 3d printed aftermarket options before long.

One half of the engine is moulded directly to one of the rear wheel halves. The other side of the engine traps the other half of the rear wheel and this assembly in turn is trapped between the frame halves.

The front wheel is secured to the mudguard and front forks. The balance of motorcycle assembly looks to be very straightforward.

The sidecar is made up from separate panels and features foot planks on the inside.

Three Wehrmacht soldiers are supplied. One is the rider, the second is a passenger and the final figure is passing by and looking at a road sign.

The KAR 98K rifles and the MP 40 machine pistol are crisply detailed. They look great.

A plastic post and base are supplied so the cardboard signs from the side of the box may be glued in place, creating a little instant story.

The small decal sheet offers five number plates – three Wehrmacht and two Luftwaffe – although Luftwaffe uniforms are not supplied.

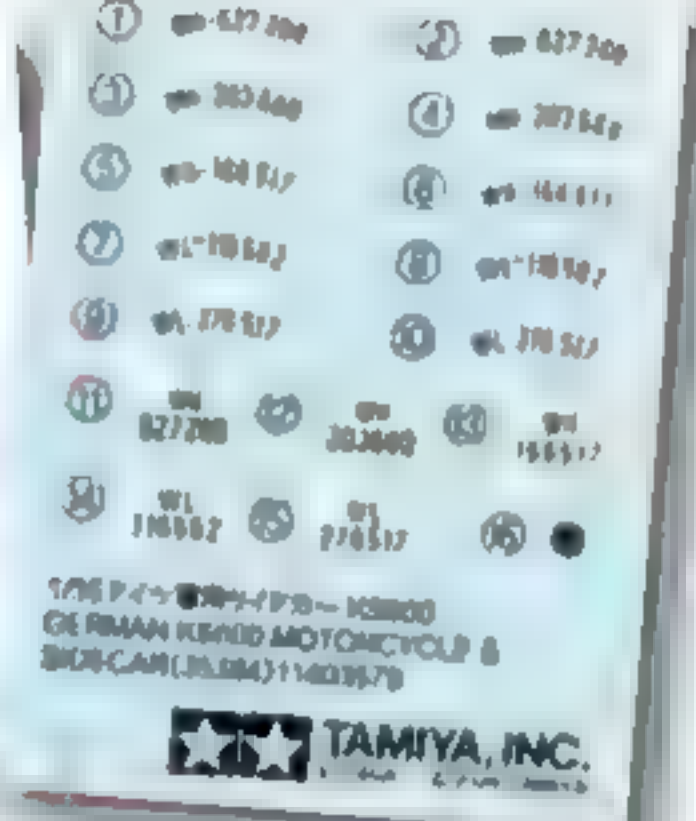
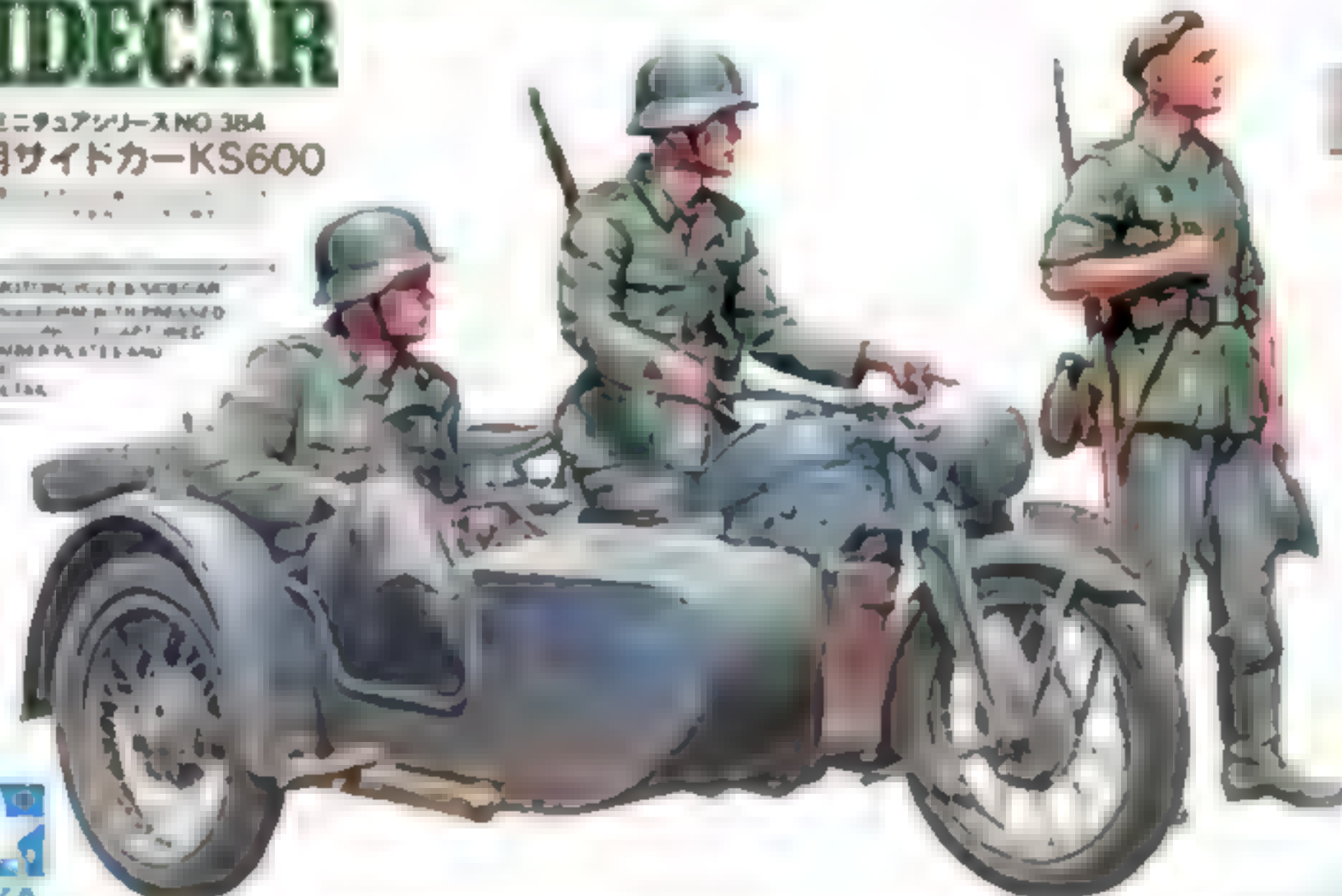
IN-BOX SUMMARY

This is a simple but nicely executed set that may be used standalone, as a vignette, or as part of a larger diorama.

KS600 MOTORCYCLE & SIDECAR

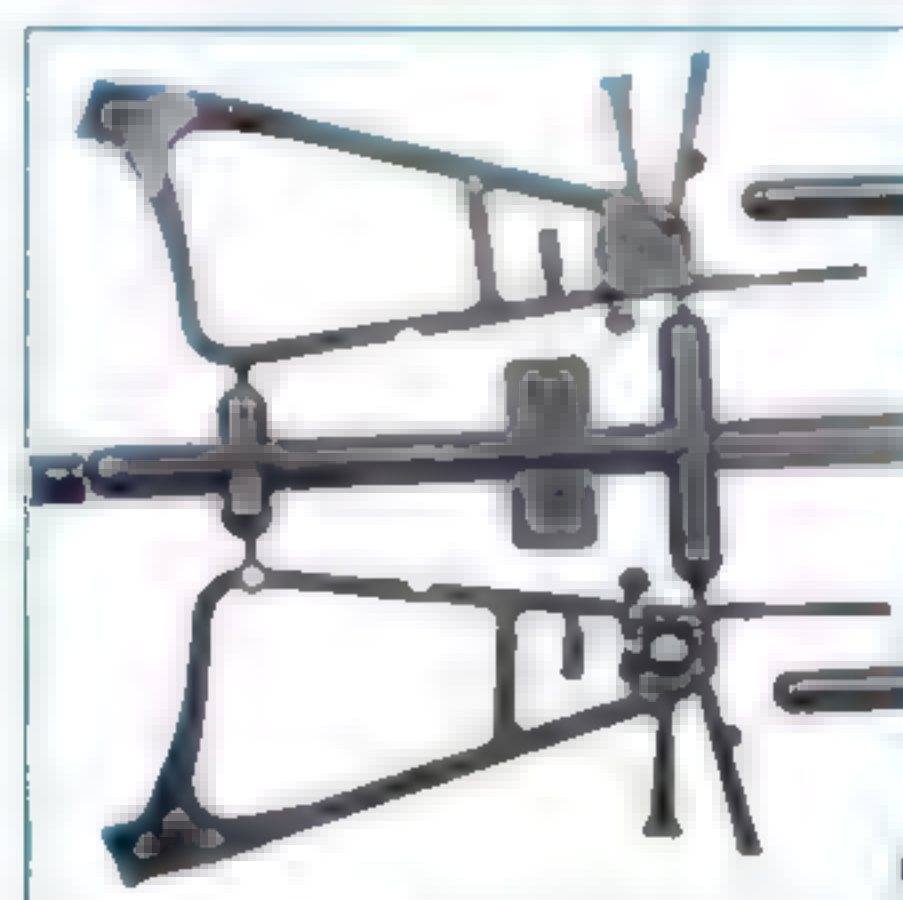
1:35 ミニチュア・ミニチュアシリーズ NO. 384
ドイツ軍用サイドカーKS600

CAUTION: READ INSTRUCTIONS BEFORE ASSEMBLY
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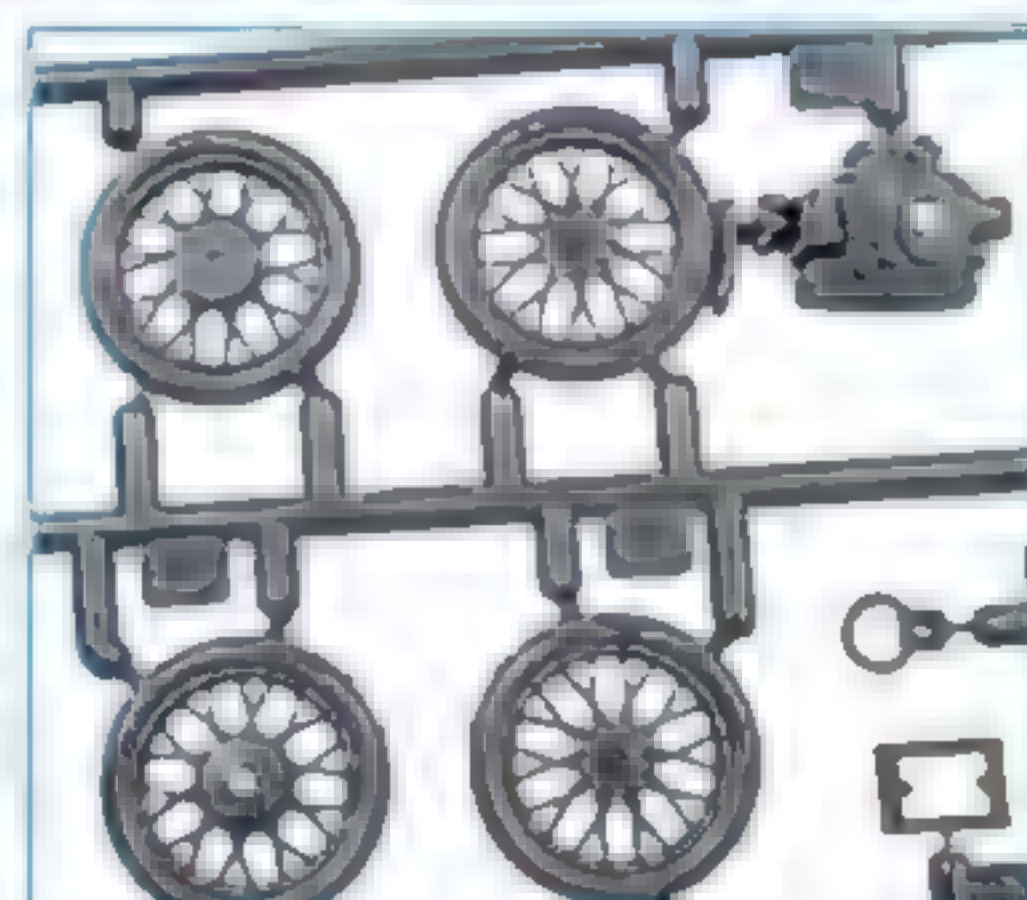


Signs are printed on the side of the box.

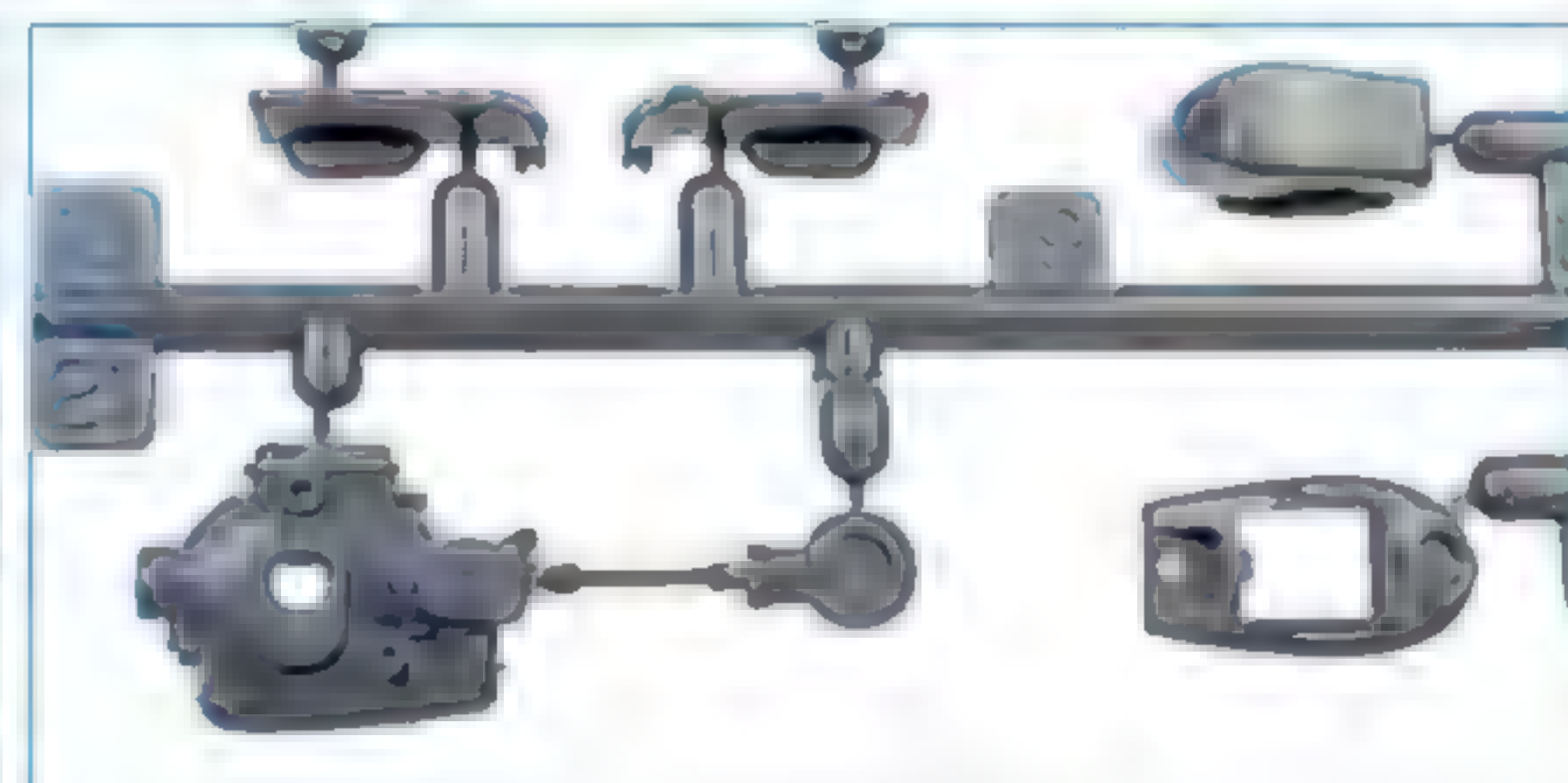
The kit decal sheet.



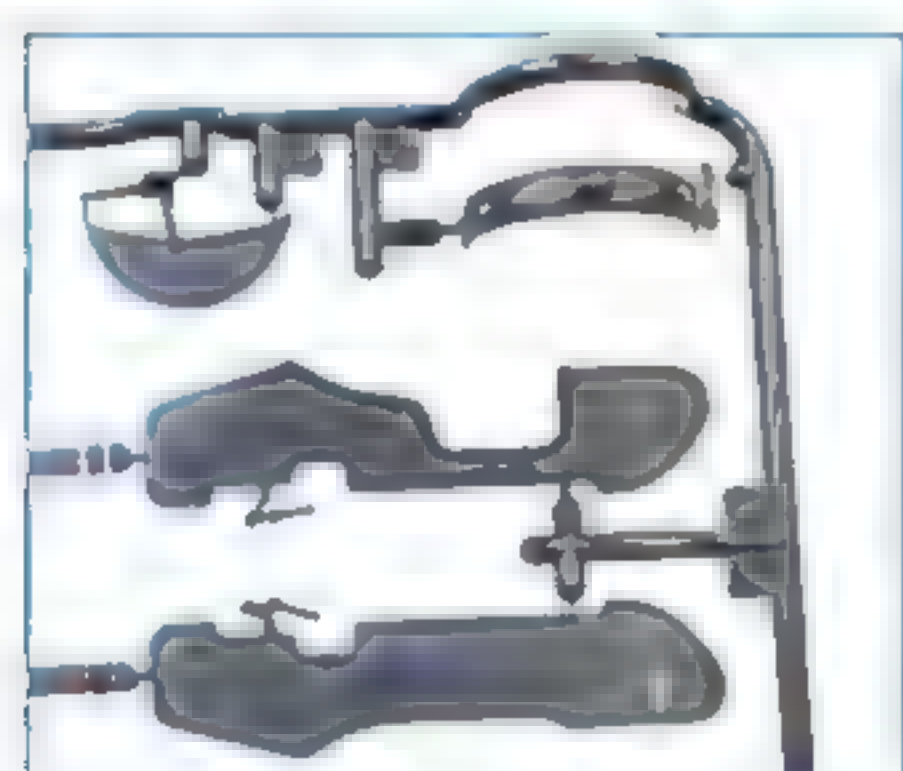
The frame is supplied in two pieces.



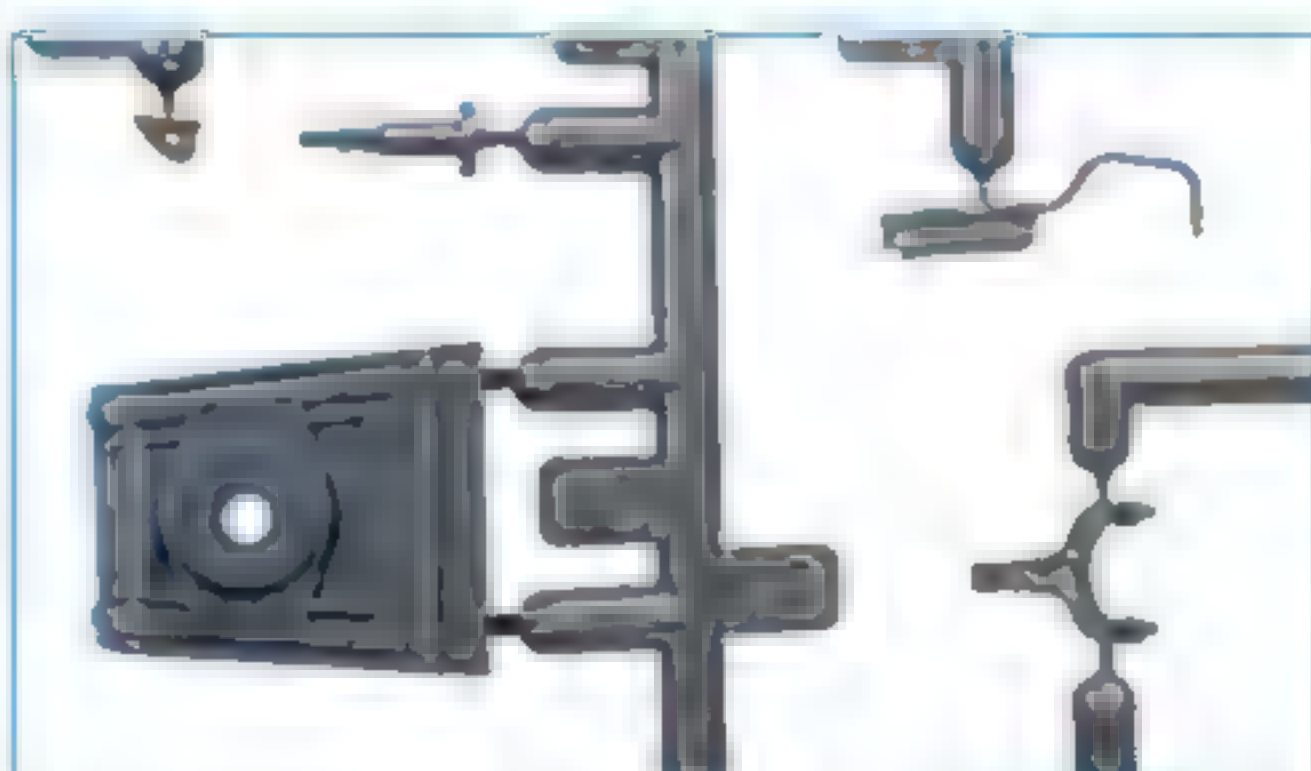
Wheel spokes are a tad heavy.



The engine.



Sidecar is included.



Surface textures are really well done.



Three figures are included.



Sol Resin Factory has released an upgrade set for Tamiya's KS600 motorcycle.

SOL MODEL FACTORY'S KS600 UPDATE SET

Sol Resin Factory has just released a 1:35 scale upgrade set for Tamiya's recent KS600 Motorcycle and Sidecar.

The 3d printed parts are attached to a single printing base with many short, fine resin strips.

My go-to tools for removing 3d printing artefacts are a sprue cutter and an Olfa knife.

My preferred method is to cut the strips off as close to the base as possible using the sprue cutters, then finish off the residue with a new hobby blade in my Olfa handle.

Care is required when removing strips, but they won't present a challenge to the moderately experienced modeller.

Printing quality is perfect with no hint of striations or other blemishes at all.

The parts are:

- three spoked road wheels (front, rear and sidecar),
- a pair of spare wheels and stowage cast on top,
- two saddle bags and a pair of milk cans in mounts,
- a 20 litre jerry can and mount,
- MG 34 machine gun, mount and one 50 round belt drum magazine.

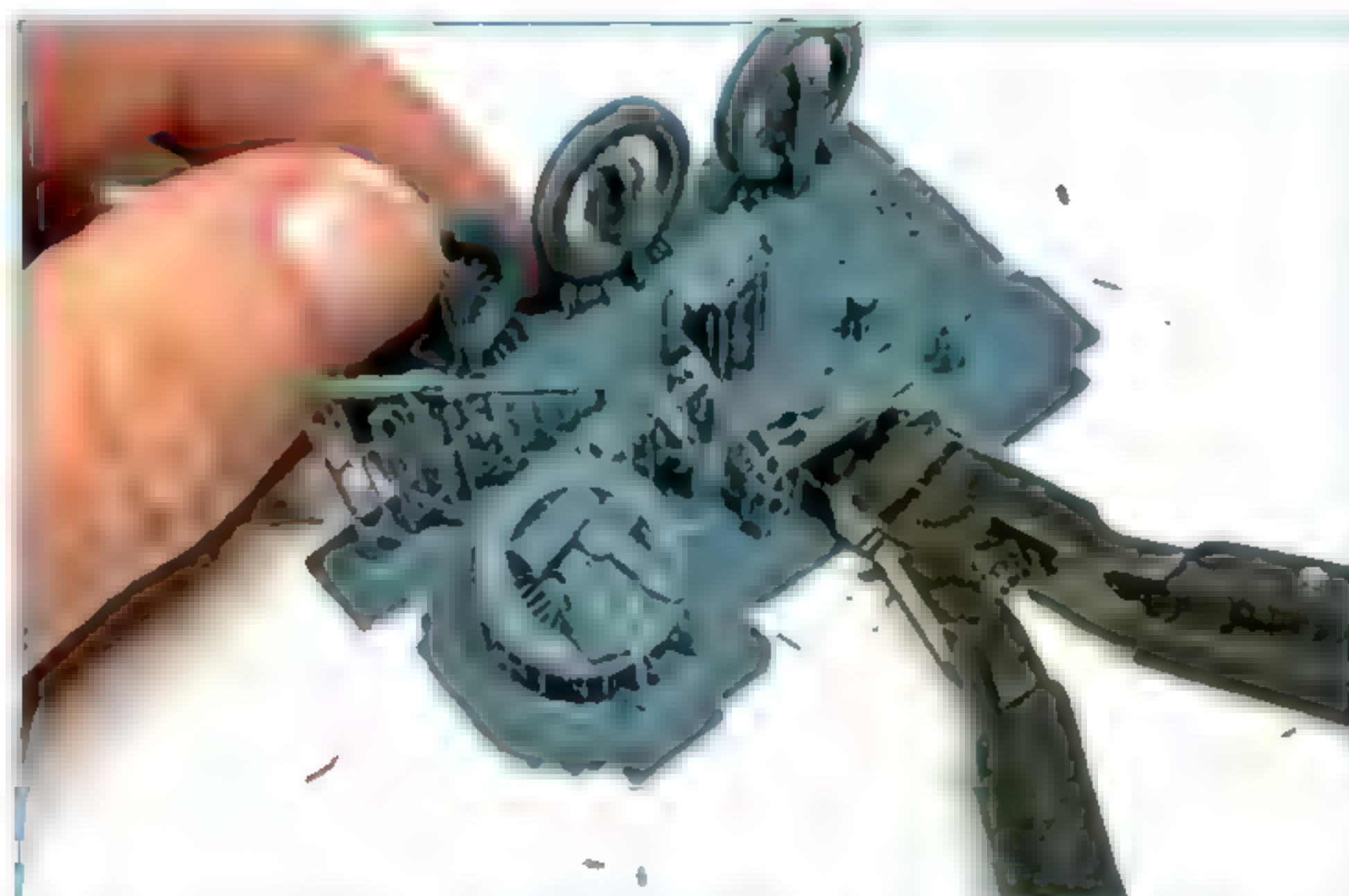


The 3d resin parts are printed onto a single base.

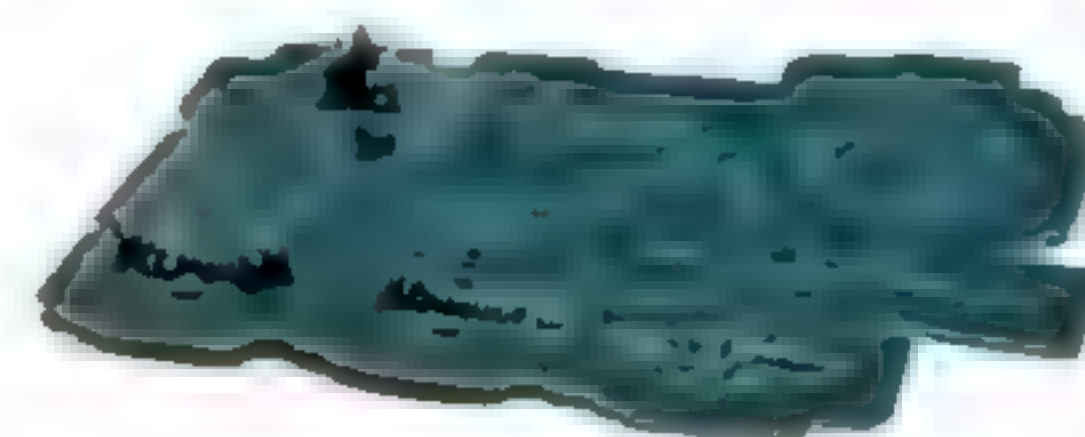
The jewels in the crown are the wheels with remarkably fine and intricate spokes.



My Olfa hobby knife and Hobby Tool side cutters are my weapons of choice when removing 3d parts from their base.



My preferred method is to cut the strips off as close to the base as possible using the sprue cutters, then finish off the residue with a new hobby blade in my Olfa handle.



The remains of the 3d printing supports.

Eleven 3d printed resin parts are included

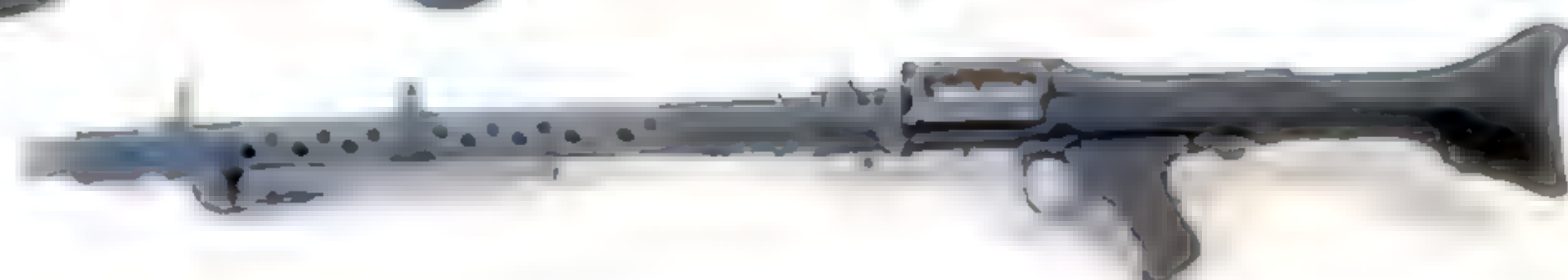


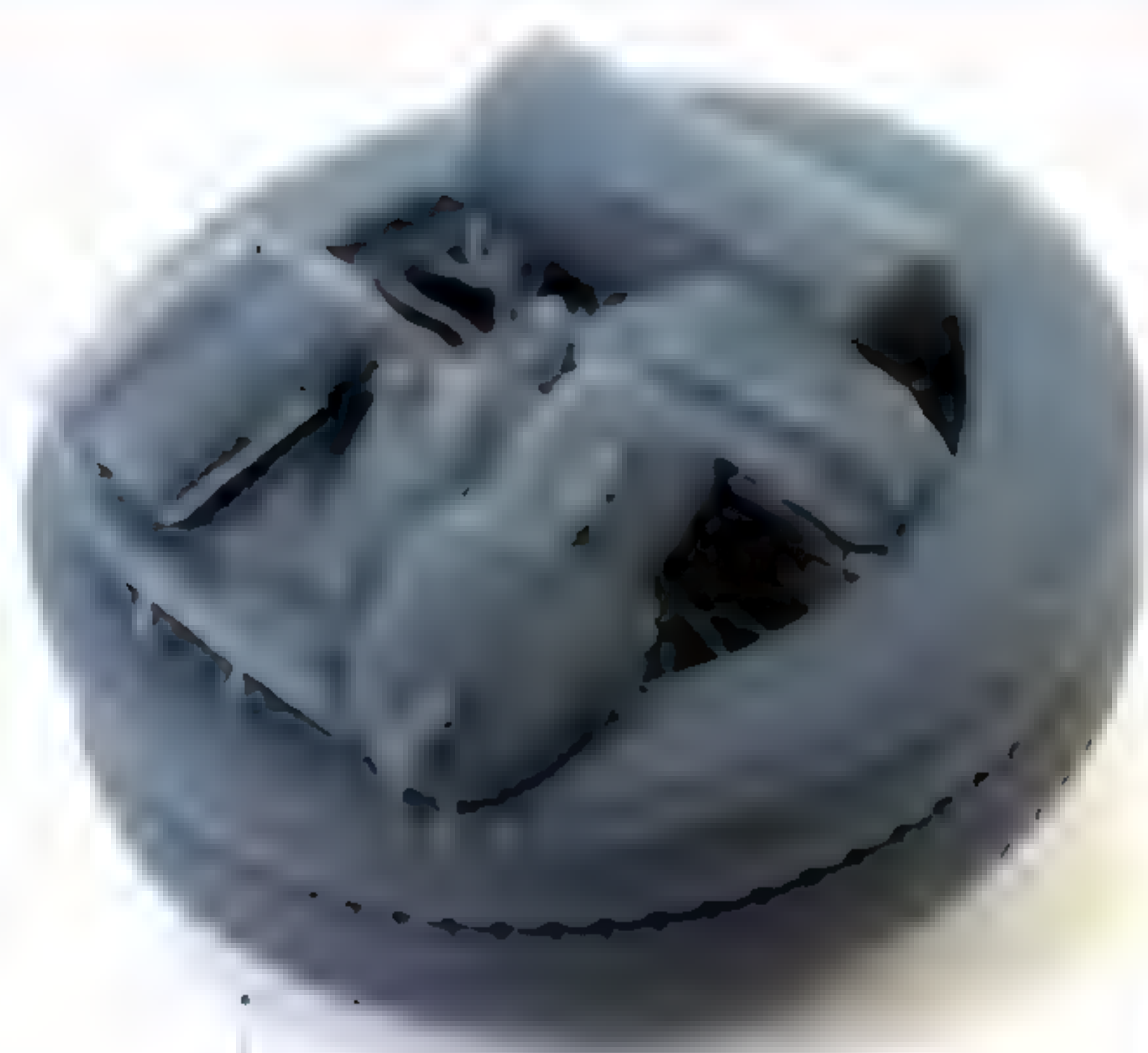
The 20 litre jerry can is a bonus part.



The saddle bags have a subtle leathery texture and subtle folds.

The MG 34 machine gun is a lovely little model in its own right, with a one-piece mount for the sidecar and one 50 round belt drum magazine.



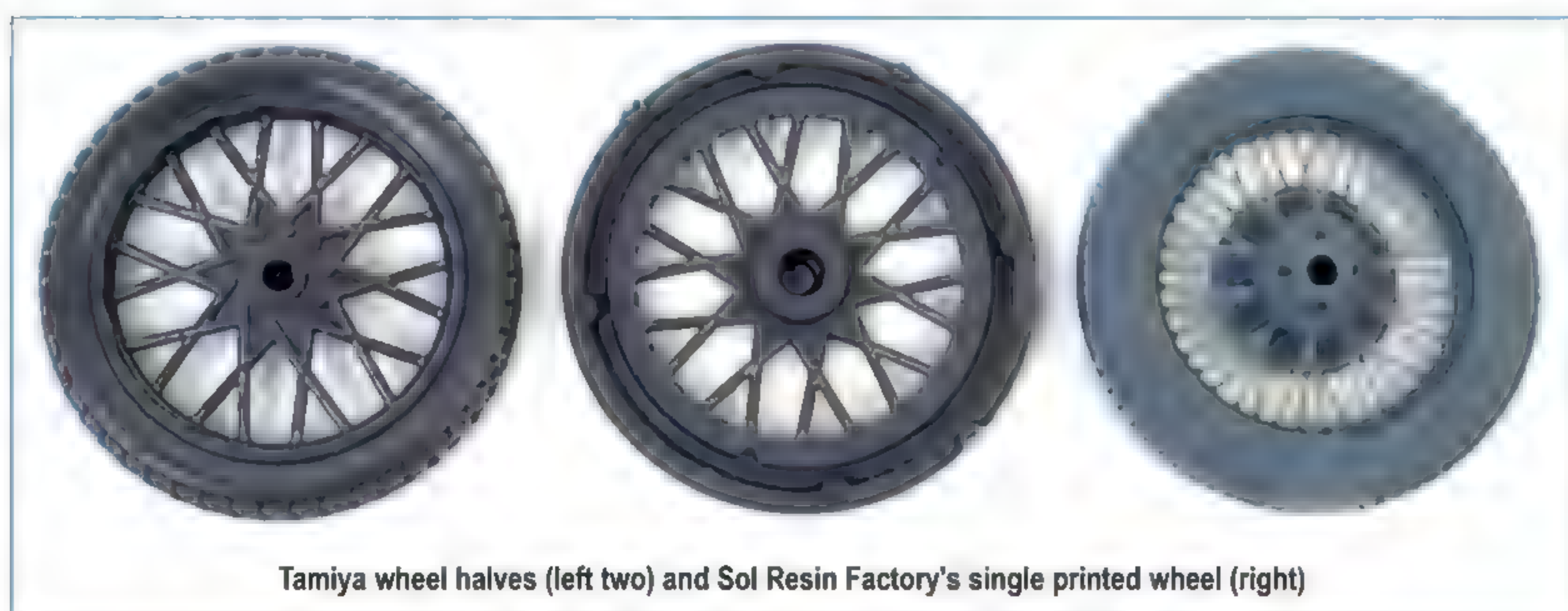


The stowage on the pair of spare wheels is a nice addition. This is all printed as a single piece.



Sol Resin Factory totally replaces the kit wheels with their one-piece 3d printed wheels.

Fine tread pattern is printed on the tyres.



Tamiya wheel halves (left two) and Sol Resin Factory's single printed wheel (right)



Inside of a Tamiya wheel half. Note the raised sprue residue.

The milk containers and jerry can feature crisp recessed lettering and intricate latch and lid detail.

The saddle bags have a subtle leathery texture and subtle folds.

The MG 34 machine gun is a lovely little model in its own right, with a one-piece mount for the sidecar and one 50 round belt drum magazine.

The stowage on the pair of spare wheels is a nice addition. This is all printed as a single piece.

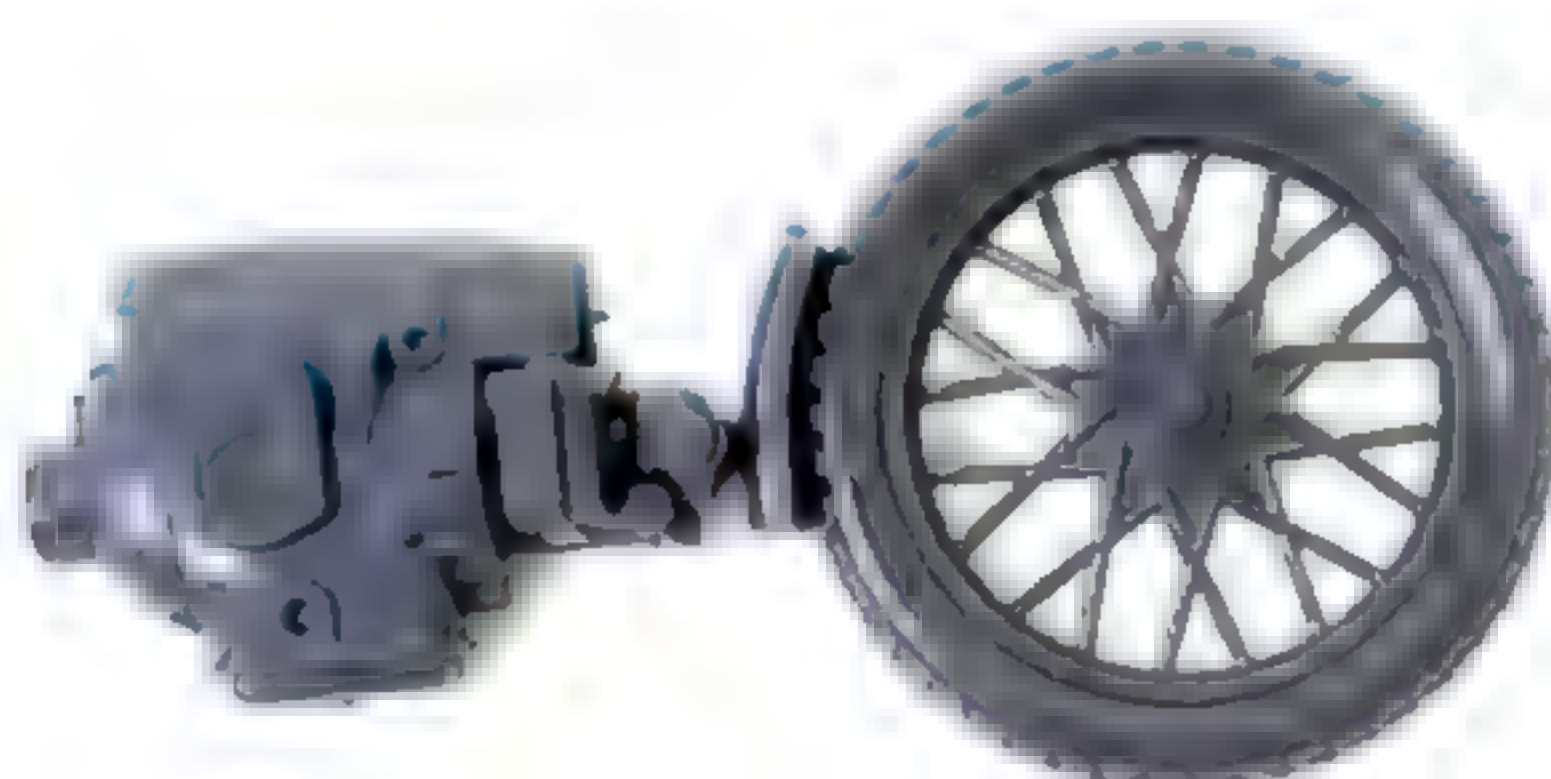
The jewel in the crown, however, is the wheels.

The biggest issue with Tamiya's KS600 kit is the chunky spokes on the wheels.

Also, Tamiya's wheels are split along the centreline with raised sprue residue on the mating surfaces of both sides, so a bit of careful clean-up is required.

Sol Resin Factory has by-passed both of these issues by totally replacing the kit wheels with their one-piece 3d printed wheels. These feature amazingly fine spokes and, being one-piece, there is no centreline seam.

This is a significant and noticeable upgrade to Tamiya's 1:35 scale KS600 motorcycle.



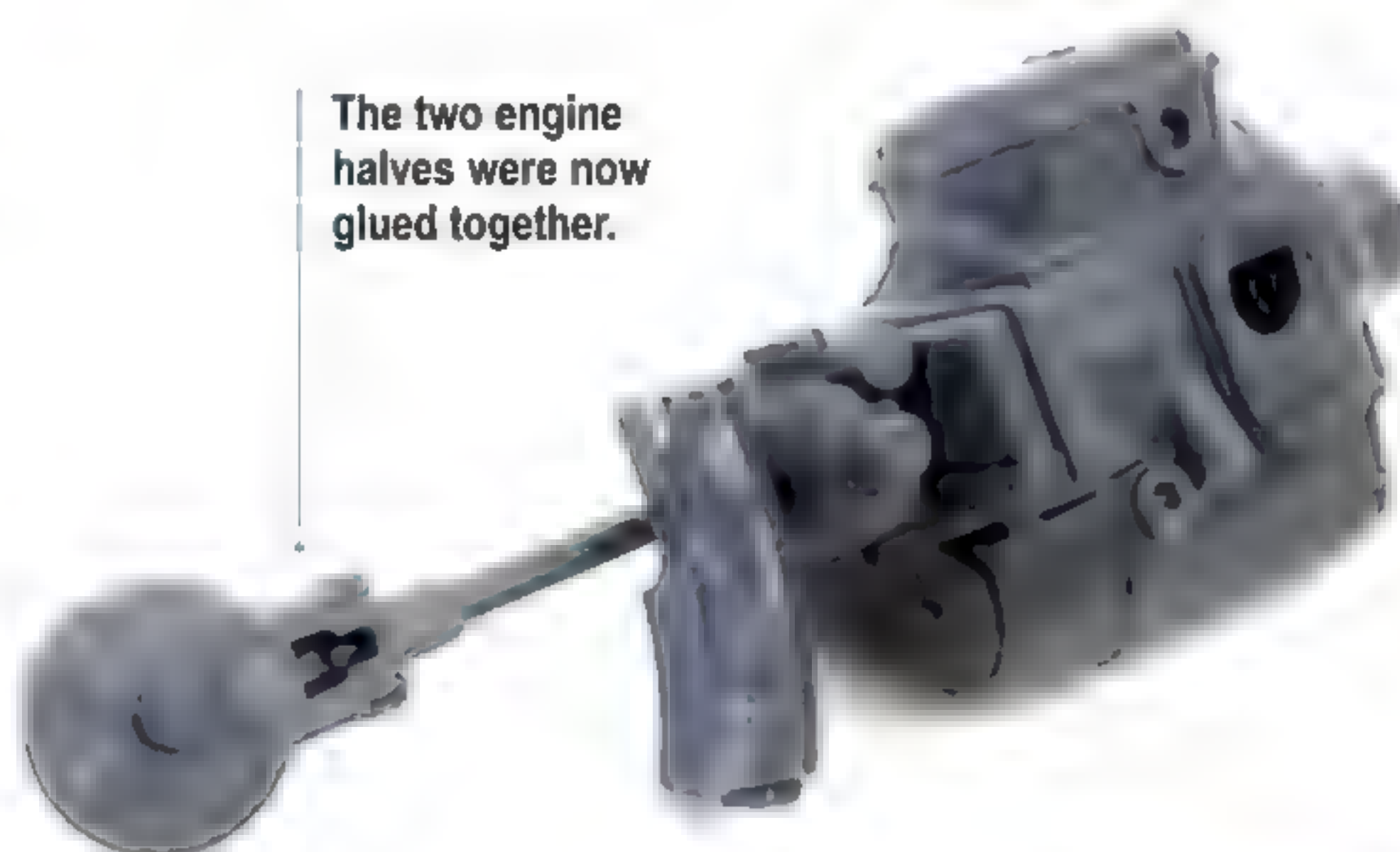
Tamiya's kit has one half of the rear wheel moulded to the engine.



The wheel half was cut from the engine using a sprue cutter.



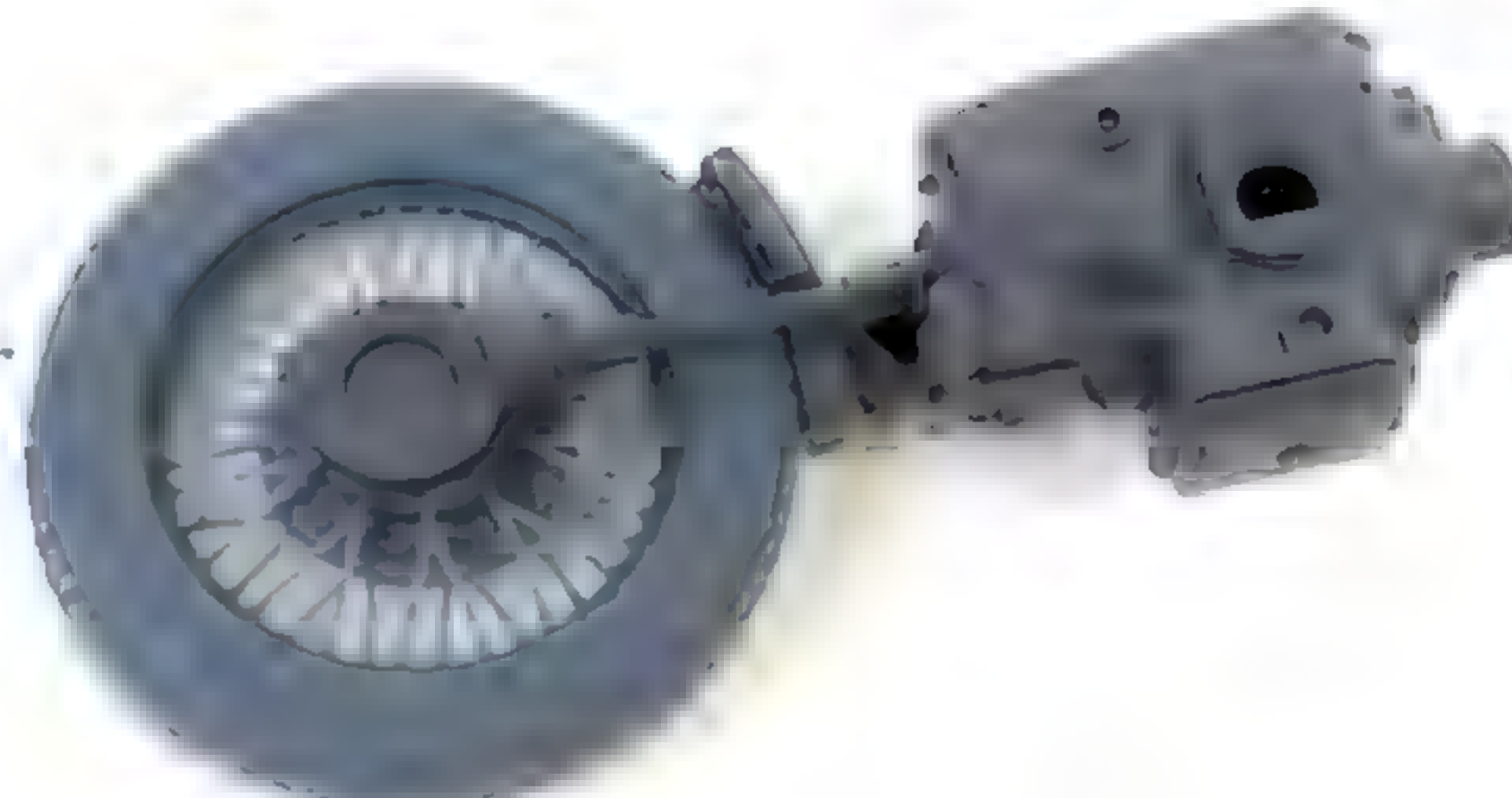
The two engine halves were now glued together.



The single-part rear wheel was fixed to the back of the engine using super glue.



How it should look from the other side.

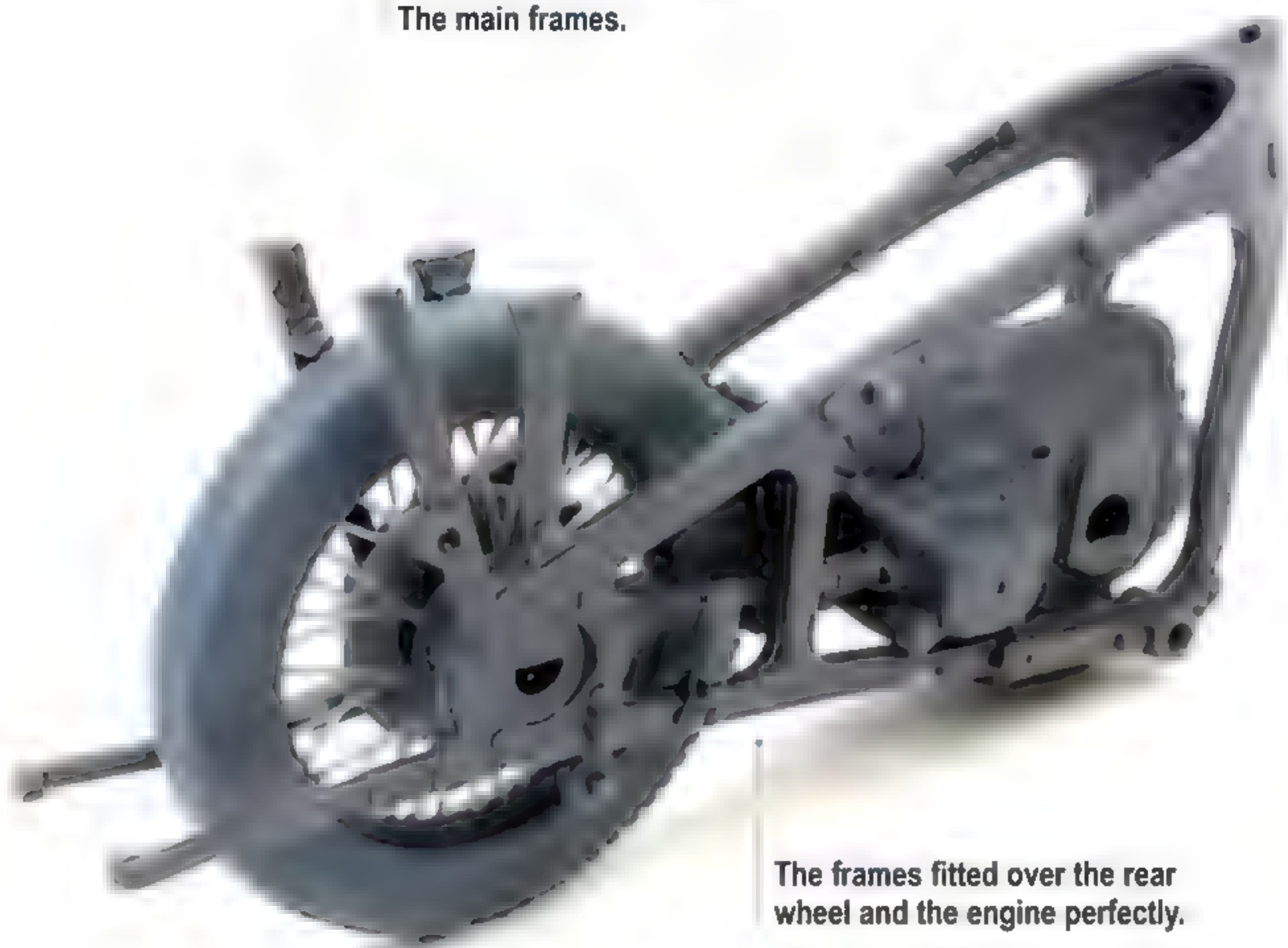




The main frames.



The engine and the rear wheel were glued to the left side frame.



The frames fitted over the rear wheel and the engine perfectly.

Each of the two cylinders is broken down into three pieces.



The cylinders in place.



Mudguard and fuel tank parts.

The main section of the motorcycle taking shape.



CONSTRUCTION

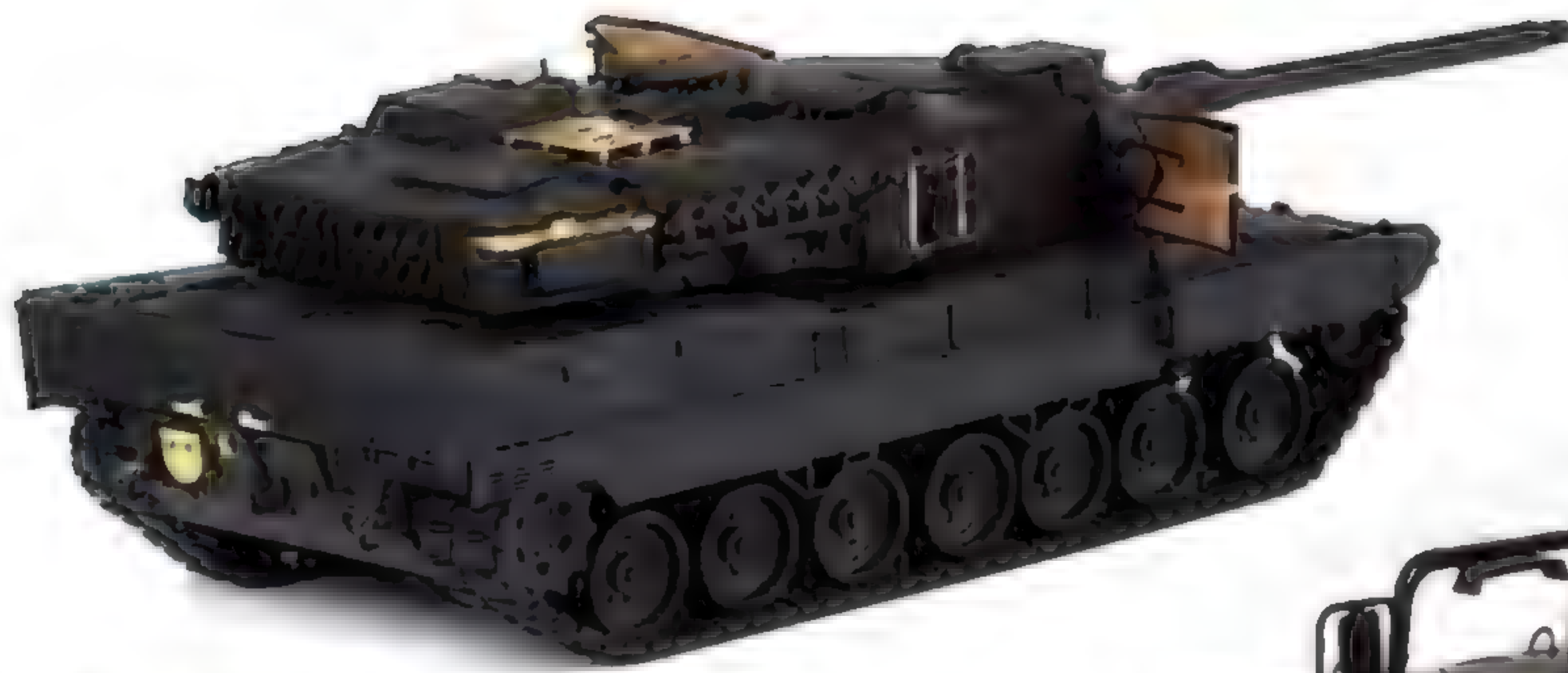
Assembly followed the sequence of the instructions, more or less.

Most of the Sol Resin Factory parts are drop-fit replacements for their kit counterparts. The exception is the rear wheel. Some minor surgery is required here.

Tamiya's kit has one half of the plastic rear wheel moulded to the engine. The wheel half was cut from the engine using a sprue cutter. The two engine halves were now glued together.

The single-part rear wheel was fixed to the back of the engine using super glue.

At this point you can pick up the instructions assembly sequence.



LEOPARD 2 A7V

Tamiya 1/35

#36524

HUMVEE M1097A2

ICM 1/35

#36522



NOVEMBER RELEASES



STUDEBAKER US6-U3

ICM 1/35

#36525

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Detail parts for the bike.



Rear saddle and handhold.

Looking suitably busy!



A view from the bottom.



Front fork and wheel parts.

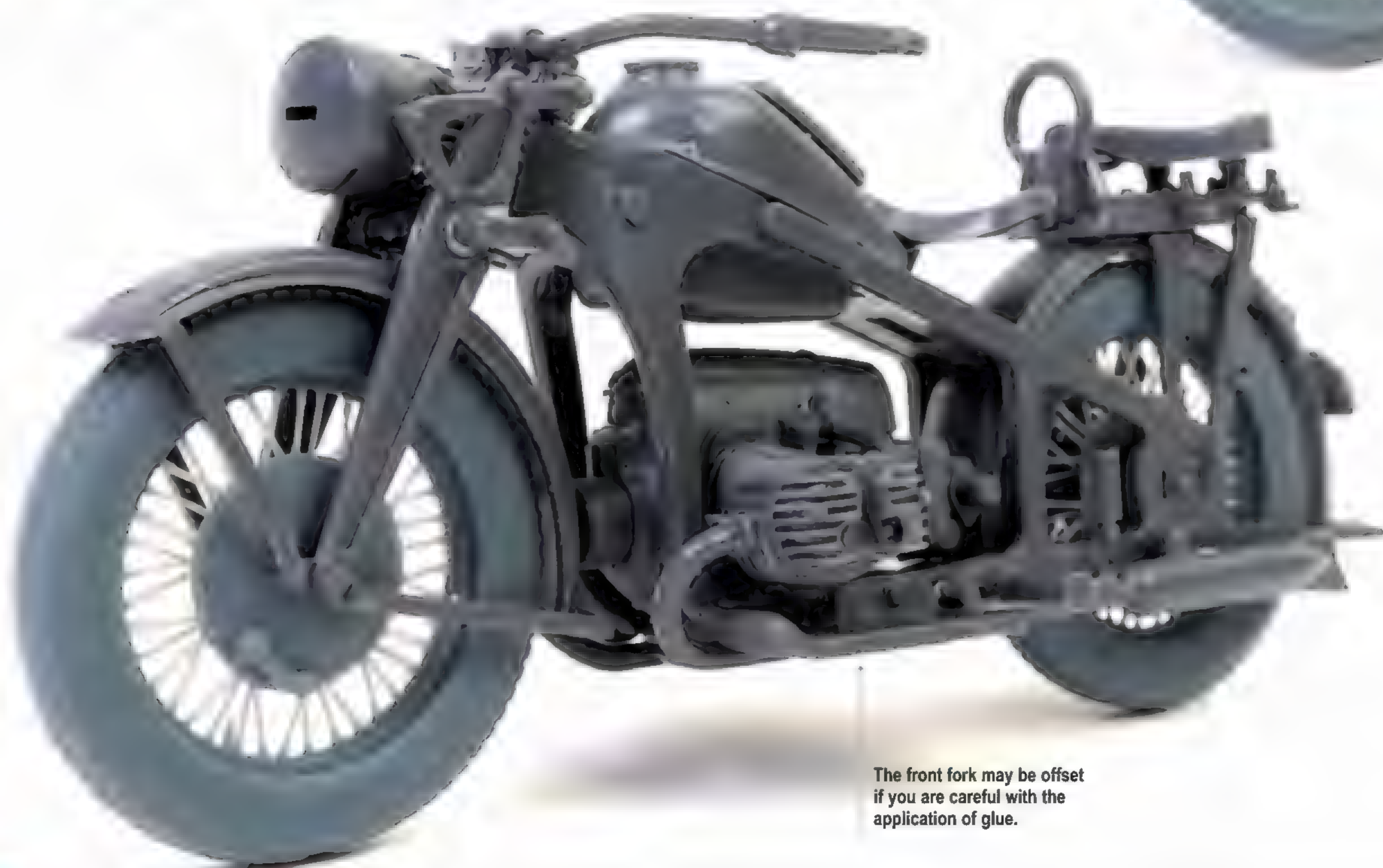
The main fork part should sit at this angle when it is pushed through the front mudguard.

Note that Sol's resin wheel has a rectangular opening that matches the locating post at the bottom of the fork.

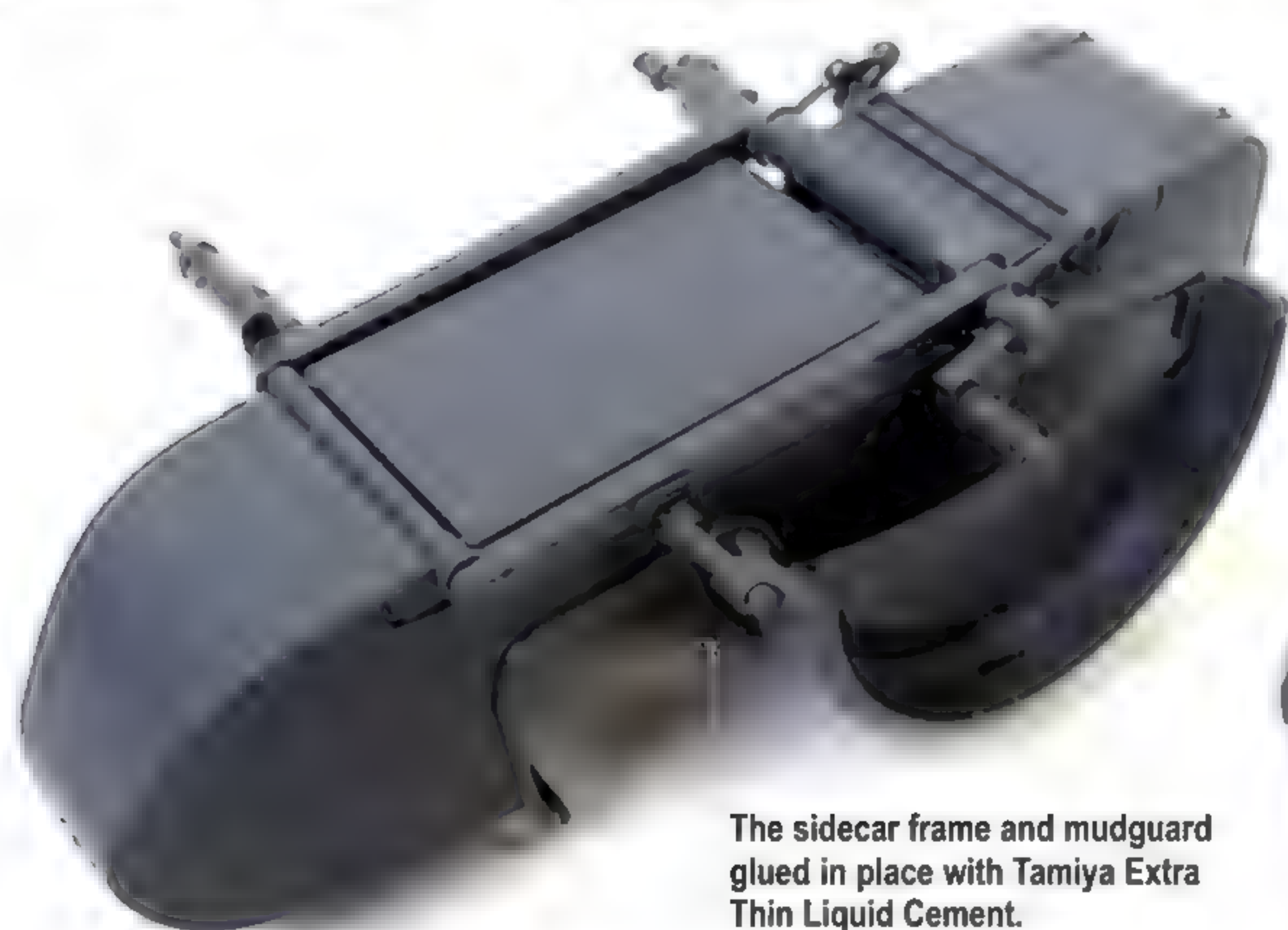
The sub-assembly needed a bit of fiddling but the fit was eventually very good.



The main body and the front fork are attached via a plastic pin.



The front fork may be offset if you are careful with the application of glue.



MODELSPEC

Tamiya 1:35 KS600 Motorcycle & Sidecar.
Kit No. 35384

Sol Resin Factory Item No. MM768 -
Upgrade Parts Set for KS600 Motorcycle
and Sidecar (for Tamiya)

Tools and Materials Used:

- Tamiya Extra Thin Liquid Cement
- Revell Contacta Professional Cement
- Selleys Supa Glue
- Tamiya Masking Tape (various widths)
- Tamiya Liquid Surface Primer
- Iwata HP-C Plus Airbrush

Paints and Finishing Products Used:

- Tamiya Acrylics - XF-1 Flat Black, XF-24 Dark Grey; XF-63 German Grey; XF-64 Red Brown; XF-83 Medium Sea Grey 2 (RAF).
- Tamiya Spray Can - Grey Primer.
- Vallejo Panzer Aces Acrylics - 304 Track Primer; 307 Red Tail Light; 311 New Wood; 312 Leather Belt; 314 Canvas; 316 Dark Mud; 333 Germ. Tkcr. (Black); 334 Germ. Tkcr. I (Feldgrau); 335 Germ. Tkcr. II (Feldgrau); 336 Afrika Korps Tankcrew; 338 Highlight Germ. Tkcr. I (Feldgrau); 341 Flesh Base; 342 Highlight Flesh.
- Vallejo Model Colour Acrylics - 70826 German Cam. Medium Brown; 919 Foundation White.
- Future Floor Polish.
- Winsor & Newton Galleria Matt Varnish.
- MIG Productions Pigments - P234 Rubbel (sic) Dust; P042 Ochre Rust; P414 Track Color.
- Maru Easy Mud - 21101 Easy Mud Standard (Light)
- Rub 'n' Buff - Pewter

✓ High level of detail; excellent fit; high quality figures.

✗ Heavy spokes (replaced with Sol Resin Factory wheels).

Available from

Tamiya kits are distributed in the UK
by The Hobby Company Limited www.hobbyco.net

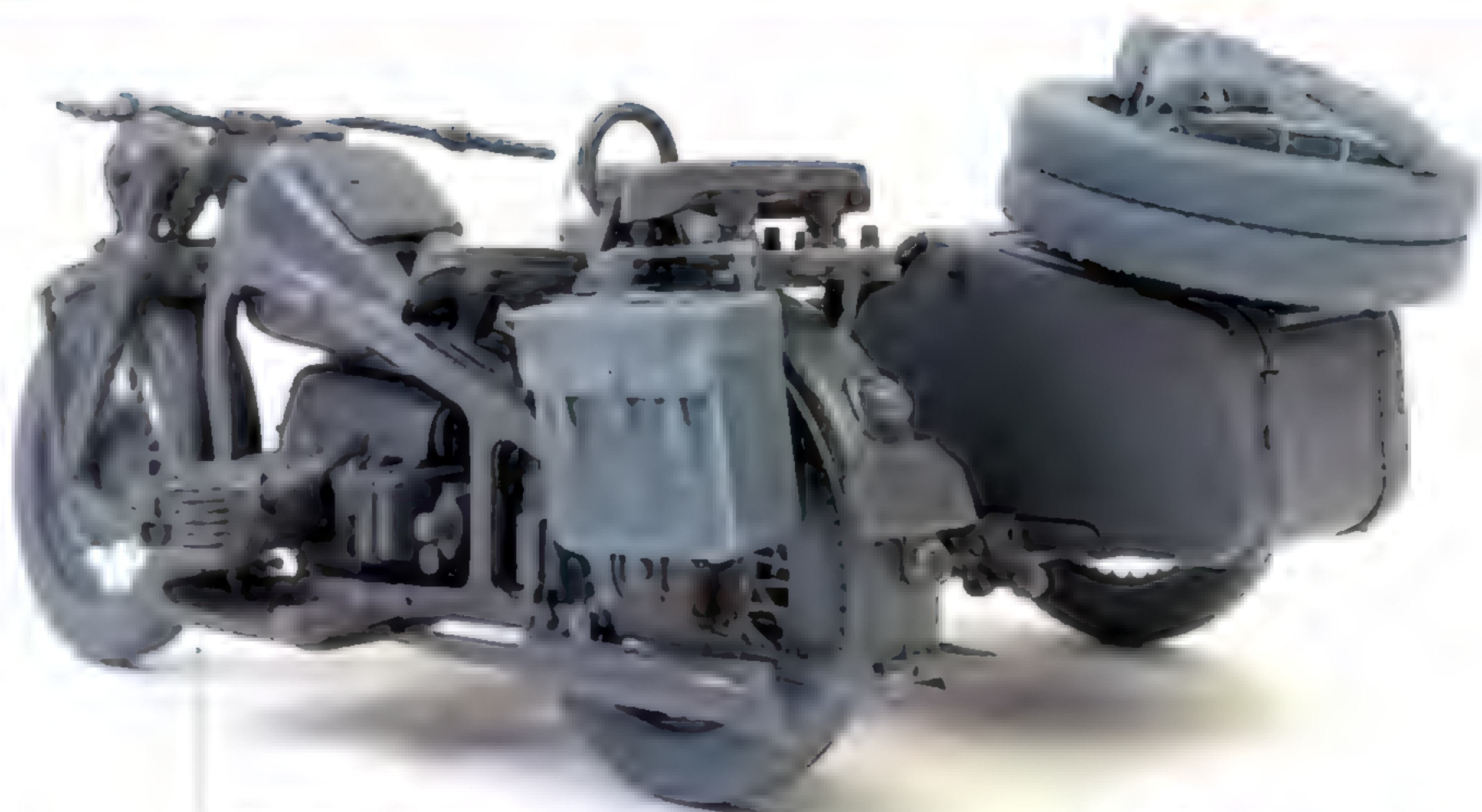
Upgrade Set supplied by Sol Model
Factory www.solmodel.com

RATING



NEXT TIME

Next time Brett adds
a crew and base to
Tamiya's 1:35 scale
KS100 Motorcycle
and Sidecar.



Saddle bags, spare tyres and
stowage have been added here.



The fine spokes of the wheels
make a big impression.



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DEFENCE OF THE REICH

Patrick Dorn creates a fictional battle vignette based on Das Werk's 1:35 scale German E-50 standard tank and a scratch built factory ruin.

The E-50 standard tank of the WWII German Wehrmacht remained a design concept and never saw action.

Nevertheless, the notion of the German standard tank is interesting from several points of view. 'Das Werk' offers a great kit based on the Trumpeter sprues with additional parts, which receives special attention in the fictional heading scene.

In the beginning there were considerations about a possible scene with the E-50 as the central element.

The E-50 was based on the King Tiger, so it would have been correspondingly large.

I wanted the scene to have an interesting effect on the viewer, yet contain several visual axes and be designed on more than one level.

I still had a 25 x 35cm base plate and after a few sketches, the idea of a battle situation in an industrial ruin was born. As I also like to model figures myself, I can adapt them to the imagined situation. With figure kits available on the market, it's the other way around.

A factory ruin was quickly cut out of Styrodur and roughly positioned. ►





◀ Slightly rotated to the right-angled ground plan, this breaks the symmetry and appears less stiff, less artificial. In addition, the ruin forms an end to the scene in the background and offers a viewing horizon that rises upwards towards the back.

The badly damaged roof and its supporting structure consist of plastic strips, which I cut from 0.5mm plastic sheets. I quickly bent the corrugated sheet metal roof into a wave shape using flat-nose pliers, the material is aluminium sheet from an old tube of my wife's hair dye. This thin aluminium sheet is easy to work with and yet quite stable.

The factory floor is also made of Styrodur and has been given a few edges to simulate laid concrete slabs. During my last vacation, I saw these panels in a lost place of an old industrial forge together with other details that I wanted to implement with this vignette.

The ruin in the rear part of the vignette creates 3 main visual axes on the left, front and right.

E-50 CONSTRUCTION PHASE

The kit consists of relatively few parts, so the chassis with turret and running gear can be assembled relatively quickly. A greatly simplified landing gear with only 6 rollers on each side shortens construction and assembly and also simplifies later painting and aging.

On the other hand, the undercarriage looks relatively puny and 'plucked', especially when viewed from the rear left, which I personally don't like.

The kit includes an aluminium gun, which has a detailed inner barrel. A great detail and nowadays it is almost a must.

I replaced the kit's single link track with a metal Friul track. There is also a matching set of drive wheels from Friul, which fit the chain perfectly (03). This retrofit set is better detailed for my taste, the chain also offers a very realistic sag due to the relatively high dead weight and is easier to age later, as the metal is already present and abrasion can be quickly represented by simple sanding.

With 98 individual parts per side, the assembly of this track is certainly the most complex aspect of the build, but the effort is worthwhile.

Although some photo-etched parts are included in the kit, I also used the photo-etched set PE35505 from Voyager to improve further details on the model. This photo-etched set is of excellent quality and offers additional scope for modifications, e.g. damage. The metal structures can be easily ▶



Scene design and layout with height increasing towards the back



Coordination of the scene, placement of the E-50, determination of sight lines and angles

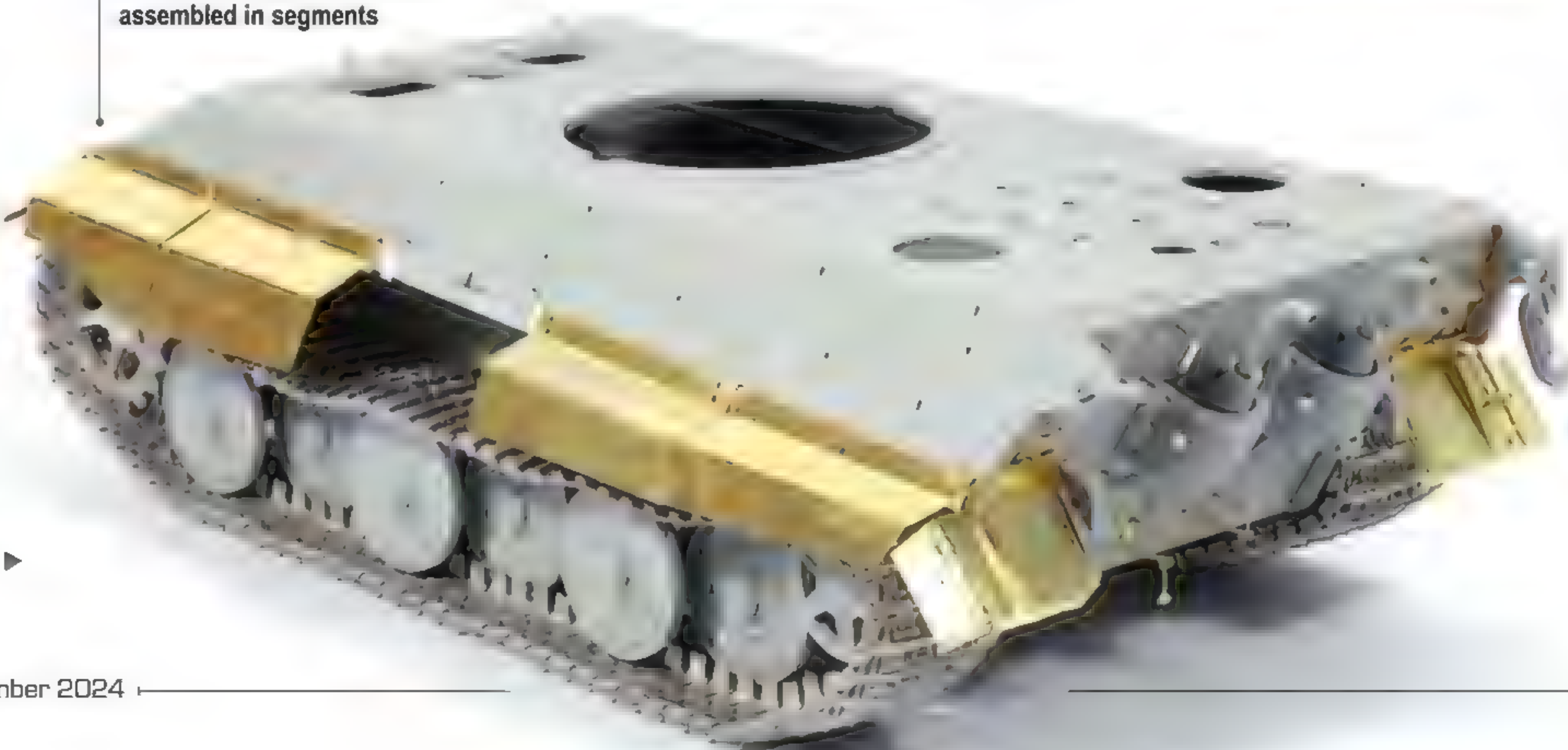


Assembly of the Friul single-link chain incl. metal drive wheel, 98 chain links per side
The mounted metal chain offers a high level of detail and a realistic sag due to its weight

Rear view with fully assembled tracks, rear track plates and side track cover from the Voyager photo-etched set



The metal track cover can be realistically deformed and assembled in segments



Detailed view of the rear with various brackets, tow rope and self-made ammunition box

Armoured turret with additional photo-etched roof armour, infrared device and aluminium cannon

Fully assembled E-50 with Friul track, photo-etched parts and additional details

Bird's-eye view of E-50 with additional details (ammunition box, oil canister, fuel canister and tarpaulins)



Detailed view of the turret with tank commander and infrared device

Bird's-eye view of E-50 with additional details (ammunition box, oil canister, fuel canister and tarpaulins)

"WITH 98 INDIVIDUAL PARTS PER SIDE, THE ASSEMBLY OF THIS TRACK IS CERTAINLY THE MOST COMPLEX ASPECT OF THE BUILD, BUT THE EFFORT IS WORTHWHILE..."

◀ bent or damaged in other ways and do not appear bulky as is often the case due to the greater material thickness of plastic castings. A real improvement on the model, even if some skill is required during assembly.

I often solder components together, which provides additional strength. In this case, however, I used superglue.

The turret (here it is the middle combat turret) was refined using photo-etched components (Voyager), an infrared device (ET-Models) and a wire or tension rope for attaching camouflage material (string from the sewing box). The leads to the IR device are made of 0.5mm brass wire, the spacers for the turret deck armour are made of 0.5mm plastic washers. The aluminium cannon is part of the kit.

In the further course I have attached some additional details, among others a tow rope made of twisted 0.2mm brass wires, a self-made ammunition box (plastic), tarpaulins (2-component putty), various rags (old tea bags), weld seams on hull and turret (putty), round and octagonal rivets (punch & die set), 2 radio antennas (0.5mm brass wire), fuel canister (leftover box), shekels (from other kits), spare rear right wheel and much more. and much more. ▶



Striped camouflage pattern with hard contours, dark yellow and olive green over the red-brown base coat



Stripe camouflage pattern with hard contours was applied irregularly (not always parallel)



Ageing process with chippings, complete and pin washes using brown, black oil paint thinned with turpentine substitute



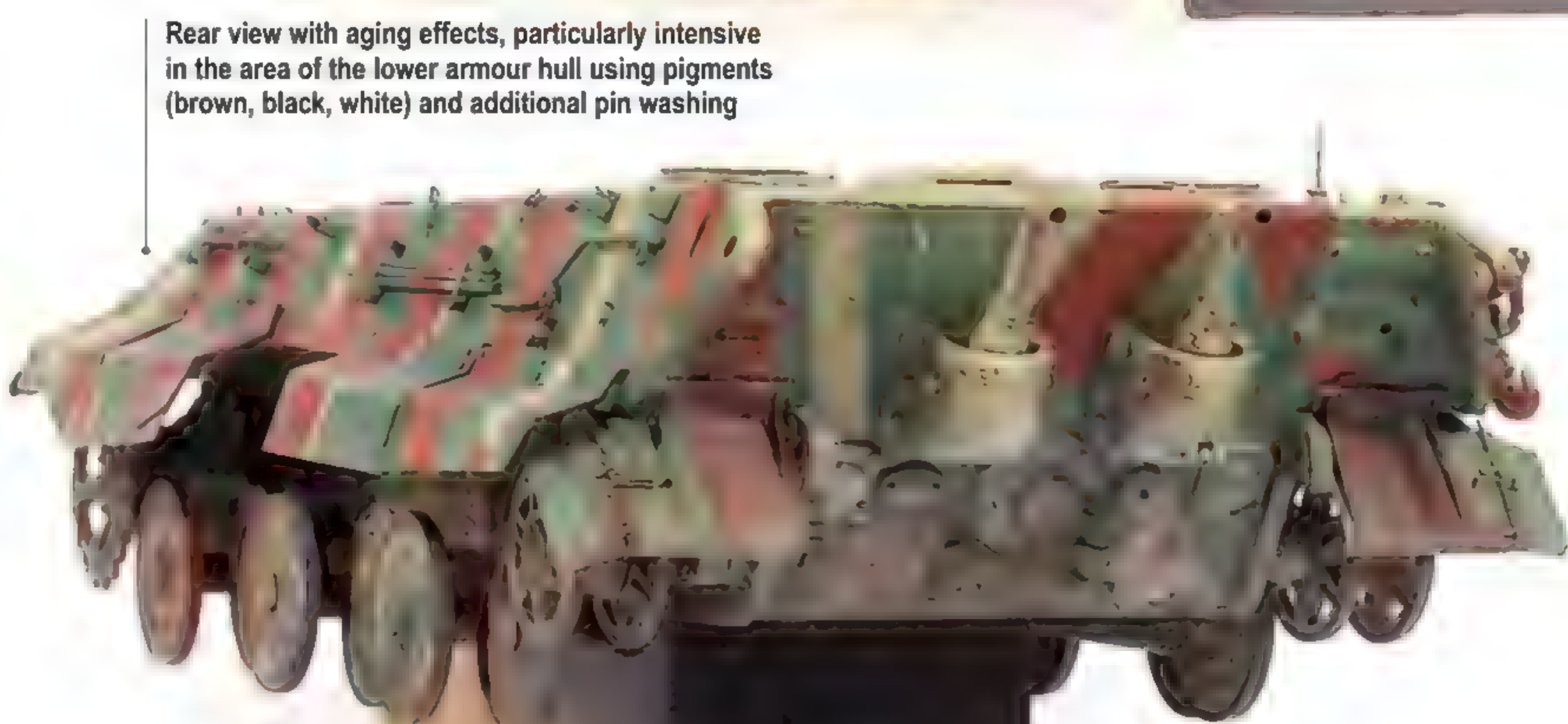
Detailed view with chippings and washes. Metal abrasion on the driving rim is clearly visible (Vallejo 'oily steel' aryl paint and graphite from a pencil lead)



Ageing process with pigments in the lower undercarriage area



Additional effects with pastel chalks, pigments and light paint application with the airbrush (Tamiya Buff and Flat Earth)



Rear view with aging effects, particularly intensive in the area of the lower armour hull using pigments (brown, black, white) and additional pin washing



Tracks were aged and mounted. Metal abrasion on Friul tracks can be easily reproduced by sanding with fine sandpaper



The ageing effects on the track and undercarriage are clearly visible. Light sanding of the track surface reveals the metal of the Friul track



The model was camouflaged using a fly screen, some wire and sea foam. The leaves were represented by marjoram leaves



Detailed view of the stern with various soiling. The mud splashes are clearly visible here



Figures enliven a model immensely, here I have placed a tank commander in the cupola. The head is from Hornet, the hands from the spare parts box, body incl. jacket and arms are modelled by myself.

COLOURING

I primed the model using an oxide-red acrylic primer for car repairs straight from the spray can. This creates a good basis for further layers of paint on the different materials.

I based the camouflage pattern on the I./PzRgt. "Brandenburg", a unit that fought in the Küstrin area on the Eastern Front in 1945. This troop used really unusual stripe camouflage patterns at that time which did not correspond to Army Ordinance No. 52 and were completely out of the ordinary.

I therefore chose such an extravagant camouflage pattern according to my reference pictures. It was a bit of a risk, as something like this can quickly go wrong.

I then added some additional details, including a tow rope made from twisted 0.2 mm brass wires.

I used the red-brown colour of the primer as the first colour for the camouflage pattern and taped the stripes for the other colours using Tamiya tape. Diagonally across the entire vehicle, but also at different angles (i.e. not parallel everywhere).

Wider stripes olive green (Tamiya XF-62) and dark yellow (XF-88), the armoured deck predominantly dark yellow. The gun barrel was given an armour grey colour, the armour plate on the turret deck a light blue-grey colour.

I mix all Tamiya paints with approx. 40% clear lacquer for a silky matt result and dilute them

with 100% isopropyl alcohol. Immediately afterwards and in preparation for the ageing process, I applied a thin layer of hairspray.

AGEING

The ageing process began with slight chipping. This simulates damage to the paint application or erosion caused by heavy use. The hairspray method was used for this, which is quite easy to apply and can create very realistic effects.

Using a brush and a little water, I discreetly coated heavily used areas on the vehicle. The water dissolves the hairspray, which also dissolves the paint on top and can be removed with a brush, for example. Depending on the intensity, this creates a very fine, irregular image of worn surfaces. I recommend keeping in mind that the brush should be almost dry, otherwise the effect is more difficult to control, quickly becomes too coarse and therefore not 'good'.

I also applied a light detail wash. I use ordinary oil paints diluted with turpentine substitute from the DIY store. I didn't apply any filters or similar this time, and I didn't use a general wash either. This time, I only worked on limited areas of the model during the aging process and applied different washes (dark colours or sand yellow, intense or less intense, flat or only in corners and edges) depending on the location.

The first details have also already been painted, e.g. the worn teeth of the drive ring or the metal treads of the wheels were painted with Vallejo's 'oily steel'.

Although not in service for long, the tanks of the late war years were nevertheless exposed to intensive use, damage and sometimes heavy

weathering.

I used pigments to depict dust, earth and other soiling. A mixture of brown, earth-coloured, yellow, white and black artist's pigments resulted in an earth-coloured to dusty hue, which I applied generously and fixed with thinned matt clear varnish. More so in the undercarriage area, less so in the upper areas of the hull.

Some accents can be set with black pigments, which I mix with oil paint and fix. Traces of oil or damp earth can be simulated very realistically in this way. Finally, I added further accents here using pigments to emphasize dusty areas in several layers.

I painted the chain matt black with the airbrush and then washed it generously with a mixture of black and brown oil paint diluted with turpentine substitute. I now often use a hair dryer for drying, which can significantly reduce the drying time. Fine sandpaper is a very good and easy way of highlighting worn areas on the chains, as the chains are already made of metal.

For the ageing step, that was it for now. I always carry out a final detailed treatment at the end of the project in order to harmonize all the components in the overall picture. That is also the keyword - the final steps in the model design. Details are always important, make a model interesting and can captivate the eye.

I wrapped a fine mesh around the gun barrel, which I had cut out of an old fly screen. The wire serves as a kind of holder for easier attachment. Using this net, I was able to attach branches and foliage as camouflage by using the holes in the net. The plant material

consists of sea foam and fine roots, the latter of which I found in my garden. Simply coat them with diluted wood glue, sprinkle some marjoram over them and you have the additional camouflage that was often used by the teams in the field.

Towing cables, boxes, tarpaulins, blankets and petrol canisters add a little extra interest to the model.

I applied mud splashes to the model using a brush and diluted oil paint. To do this, I let the brush flick over my finger so that paint splashes land quite realistically on the model (21).

Once all the details were attached and positioned on the model, I did the final touches. I went over the model again with the airbrush and heavily diluted Tamiya buff XF-57 paint, applying the last mud splashes and pigment stains here and there, mainly to make the model coherent overall and to even out any major differences between the chassis and the hull in the general appearance.



Figure construction using wire frame and Aves 2-component putty, the head is made of resin and from Hornet, pistol holster and left boot from the leftover box

Finished figure, machine gunner in barrel position, painted with Vallejo paints

SS gunner with oak leaf camouflage jacket and trousers in field grey

SS rifleman finished painted with rifle and sling (sling made of paper). Painted with Vallejo colours

SS gunner in falling position. Hornet's head, boots, spade and equipment from the spare parts box, body and uniform modelled with Aves 2-component putty



FIGURES

Figures enliven a scene immensely. They also allow the viewer to better assess the proportions of models.

I sometimes model figures myself. This allows me to adapt the figures to the scene and not the other way around. I use resin heads from various manufacturers (e.g. Hornet), hands and equipment are usually from other figure kits from the leftover box. I model the body using a wire frame and Apoxy - 2k modeling clay or the well-known Magic Sculp.

I really enjoy this subject, but it's not so easy to realize - I'm still in the middle of the learning process.

I feel the same way about painting. I'm constantly trying to improve, but I'm afraid I still have a long way to go. As you know, you learn the most from mistakes and criticism, practice makes perfect.

I use Vallejo acrylic paints and a fine brush to paint the figures.

The acrylic painting technique has already been discussed elsewhere and there are a large number of informative instructions available on the Internet, which is why I won't go into more detail here.

With regard to the uniforms, I have used various camouflages. In this fictitious situation, remnants of various units were combined to form the last combat units, so that a wide variety of uniforms could be found side by side. I have mixed field grey winter uniforms, SS oak leaf patterns in different variations (autumn, spring) with field grey pants, jackets etc. The fictional scene offers a certain additional "artistic freedom" at this point.



Vignette with first colouring using watercolours; the ground was sprinkled with earth and sand from my garden, fixed with diluted wood glue



Damage to the masonry was incorporated, the roof was also painted from below and additional details were added (signs, spots of paint etc.)

THE RUIN

As mentioned at the beginning, the ruin and the 'surroundings' are completely self-made.

I started by painting it, using water-based paints to avoid damaging the Styrodur.

I applied several coats of diluted water-based paint as the Styrodur absorbs a lot of it.

I used red, brown, black, white and ochre or mixed these colours together.

I primed the plastic steel girders again with red-brown acrylic primer, followed by a coat of grey Tamiya paint. You can use any grey paint here, it doesn't matter, as it will change in appearance later due to aging anyway.

After drying, I grouted the brickwork with paint spatula and gently removed any excess material with a kitchen sponge.

I then reinforced the masonry paint with an additional layer and added colour accents by adding a little ochre. accents by adding a little ochre.

I aged the steel girders with water-mixable oil paints, mainly dark brown and black. I also simulated rust and various traces of weathering with these oil paints, which I applied directly and smudged lightly with a brush. Some pigments or pastel chalks in the corners and edges, a few old rags, old cables and a pipe made of 1.5 mm solder wire create small details that catch the eye

I sprayed the roof with an airbrush and various shades of buff, including the underside. The height of the vignette is designed so that it is also possible to look under the roof.

Damage to the brickwork was caused by the removal of some

bricks in an irregular manner or somewhat intensified where shelling caused more severe damage. Simply lever them out with a knife, whitewash them with a little water-based paint and you're done. Some bricks are also protruding, others are slightly pressed into the wall. A small additional detail. An old window frame was made from ice cream sticks (my kids eat a lot of ice cream), which I split open and glued together with wood glue. I broke off the ends, the resulting break with spliced wood looks quite realistic, I left it unchanged.

Other small details such as signs, cracks in the foundations etc. round things off a bit. Round things off a little. ►



Debris and all kinds of broken parts added and painted, creative chaos



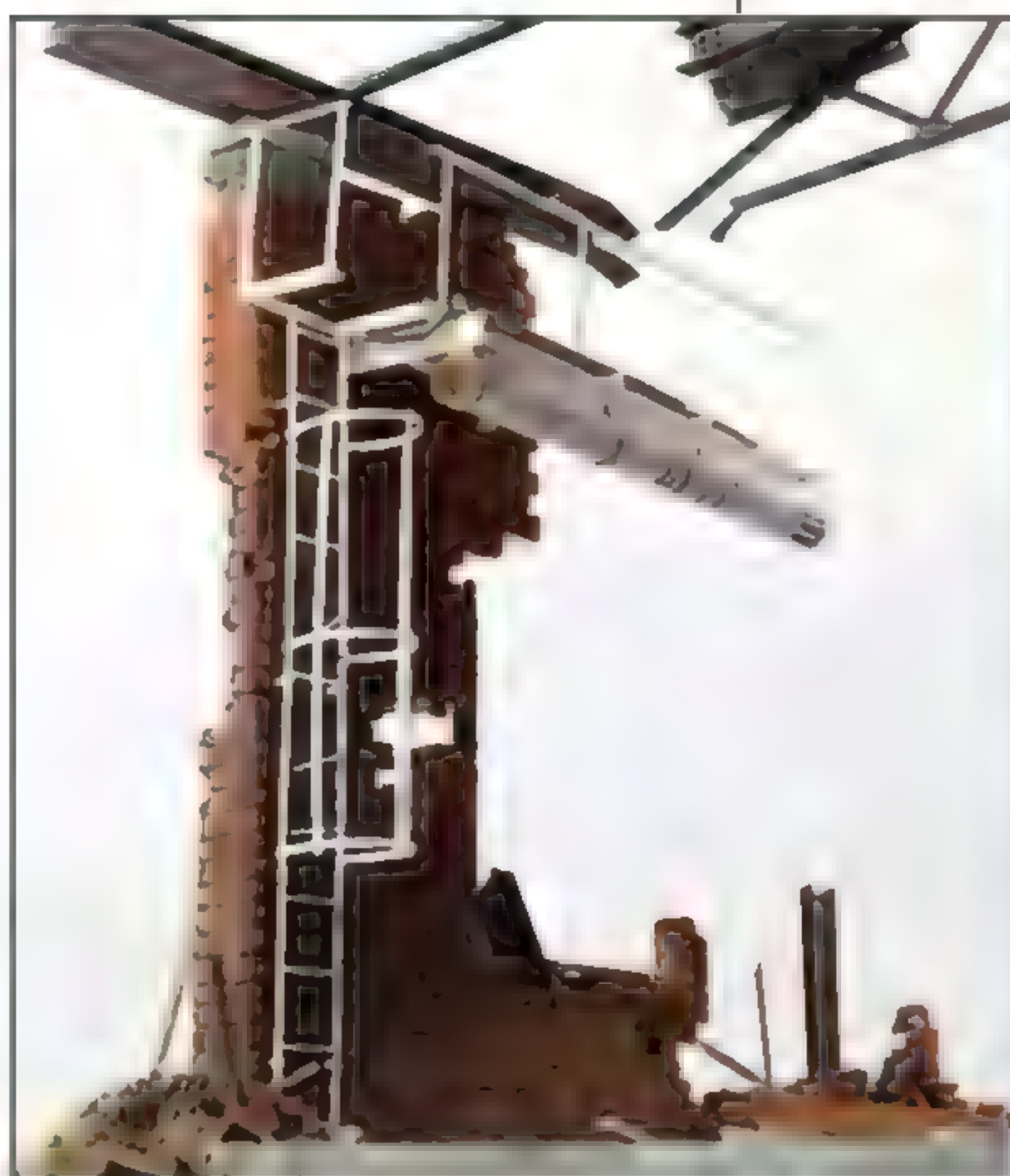
◀ But the real chaos has only just begun. Debris, garbage, stone, wood, an old BMW sidecar bike was buried, wire, lots of rubble, sheet metal, cables, plants, old helmets, bags and so on. Everything that the grab bag had to offer was now placed on the vignette in piles of rubble and all kinds of garbage, fixed with thinned wood glue and colour-matched to the scene with the aforementioned watercolours.

Over a cup of coffee, I noticed the rear left inner corner, which was somehow still too empty. I therefore quickly built a ladder and a maintenance walkway with railings completely cut from 1mm plastic strips, which I glued accordingly.

An old kitchen strainer served as the floor on top of the crossbar, a heating pipe made of aluminium foil, which I wrapped around my hobby knife (made exactly the right diameter), a few more lines made of 1.5mm solder wire complete this detail. Somewhat crooked, it is a ruin after all.

This time I used oil paints and turpentine substitute, as it does not attack the plastic and aluminium and I was able to remove the ladder and paint it separately. I diluted the oil paints with plenty of turpentine substitute to simulate vertical flow and rust marks (ochre and sienna)

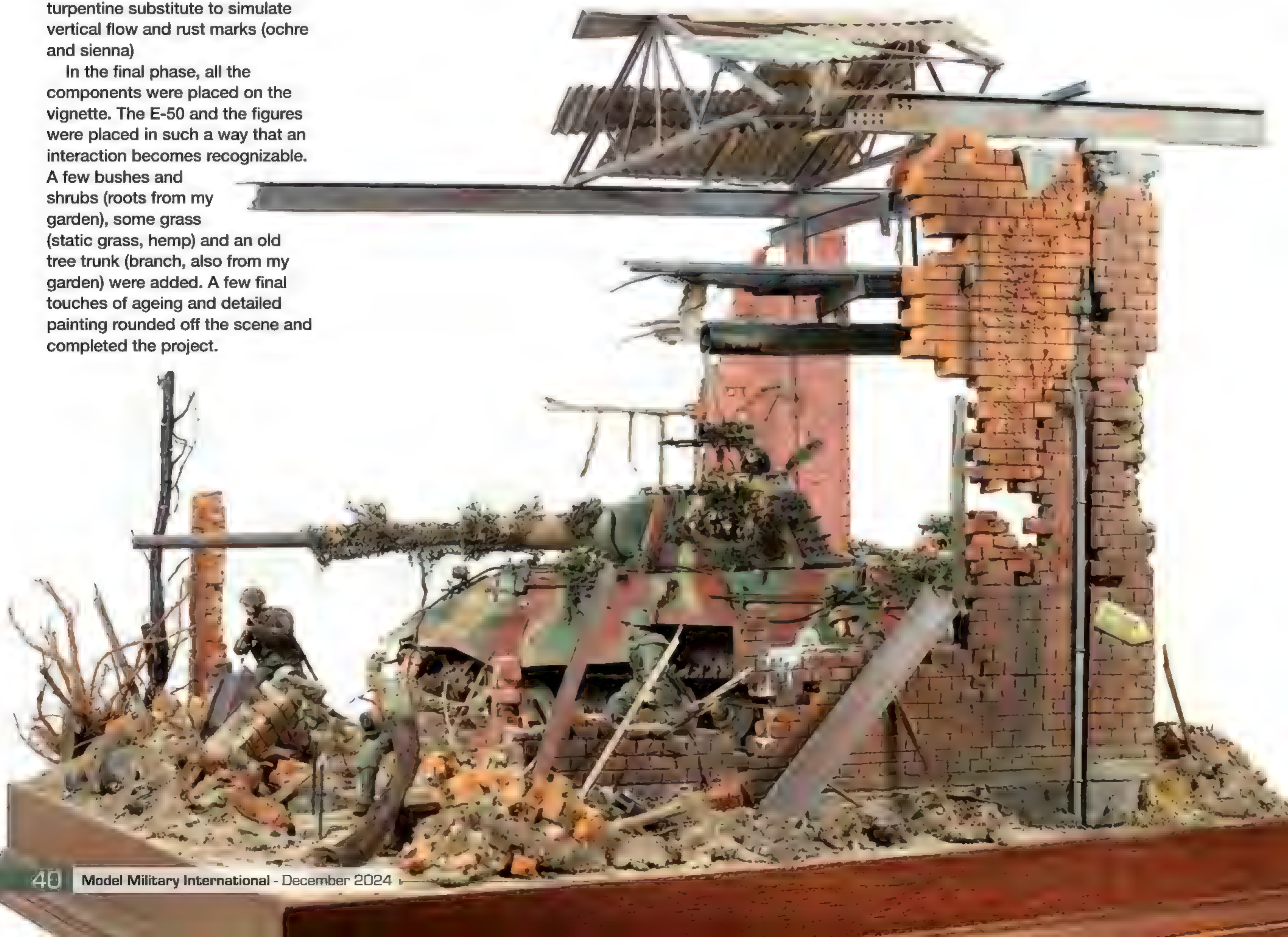
In the final phase, all the components were placed on the vignette. The E-50 and the figures were placed in such a way that an interaction becomes recognizable. A few bushes and shrubs (roots from my garden), some grass (static grass, hemp) and an old tree trunk (branch, also from my garden) were added. A few final touches of ageing and detailed painting rounded off the scene and completed the project.



Maintenance aisle with ladder made of plastic strips and aluminium sheet additionally loosen up the vignette



Finished and assembled maintenance gangway, painted with Tamiya paints, aged with oil paints (brown, sienna, ochre, black, white)



CONCLUSION

The scene depicts an attack, the tank Commander shouting loudly in the direction of the attack, infantry running around hastily, some soldiers already taking up the fight against the enemy, shouting and gesticulating.

I tried to establish dynamism and movement in the scene. Last but not least, the design of the figures and their positioning enliven a scene and create visible interaction. I hope I was able to create an interesting situation overall, even if it is purely fictional and not historically documented.

The E-50 remained a concept and never entered service. ■

MODELSPEC

Manufacturer: Das Werk 1:35 E-50 Standard Tank. Kit No. DW3503

Price: ca.55 Euro

Construction Time: approx. 90 hours

Difficulty Level: Medium

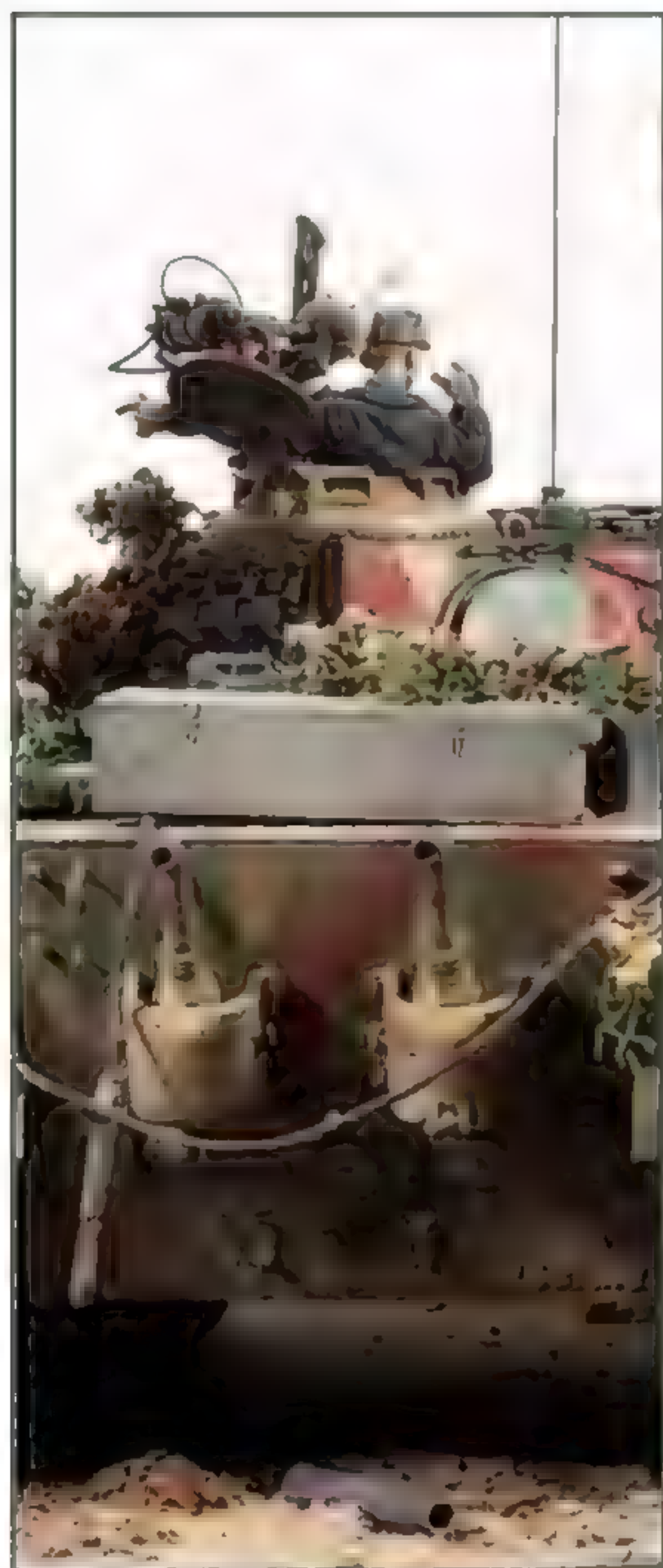
Accessories:

- Voyager photo-etched set PE35505
- Friulmodelismo: single link chain ATL-37
- Aves-2 components putty
- brass wire 0.5mm
- solder wire 0.5mm and 1.2mm, aluminium sheet
- Tamiya tape

Paints Used:

Tamiya Buff, Dark Yellow, Flat Black, Olive Green, Clear

Watercolours from the artist's supplies (red, brown, black, white, ochre)







LANTZ BULLDOG

Javier Redondo Gimenez builds MiniArt's little 1:35 scale Lantz Bulldog tractor straight from the box.

Lantz was the leading manufacturer of agricultural machinery in Germany during the first half of the last century and its tractors, nicknamed Bulldog for their appearance, were the benchmark in the country for a long time. Robust, powerful and very reliable, with a simple single-cylinder engine that could use various types of fuel, and with very few moving parts that made them easy to repair and maintain.

During World War II, the German Army took advantage of the reliability of these tractors by using them as towing vehicles. After the war, production resumed until 1955.

A year later, the company was acquired by the American agricultural equipment manufacturer John Deere.

This small MiniArt model is ideal as a break between larger projects. The parts are free of burrs, with sharp details and many small, very fragile parts that must be worked with care.

The model was assembled straight out of the box following the instructions without any notable problems. ■



The parts were assembled in sections so that they can be easily painted.



We then apply an airbrush primer using Vallejo's Black Surface Primer.



The base colour was lightened with the same XF-18 to which I added XF-2 Matt White

From the brand's marking guide I decided to paint the model blue. A base coat of Tamiya XF-18 Matt Blue acrylic was sprayed on.



Heavy wear was depicted using diluted XF-2 in the areas with the most light.

A few washes were now added to the surface with Vallejo's Wash Blue Grey.





We now moved on to the wheels. Tyres were painted with Tyre Black and the rims with Fire Red, to which a few drops of gloss varnish were added.



Light Sienna pigment was diluted in cleaner and applied over the entire surface, making sure that the pigment entered the gaps.



A ring was now drawn around the tyre using the airbrush in black.



The exhaust pipe was painted with a base coat of Light Rust



Successive washes of Light Rust, Dark Brown and Dark Rust were added by area, allowing them to dry between the different applications.



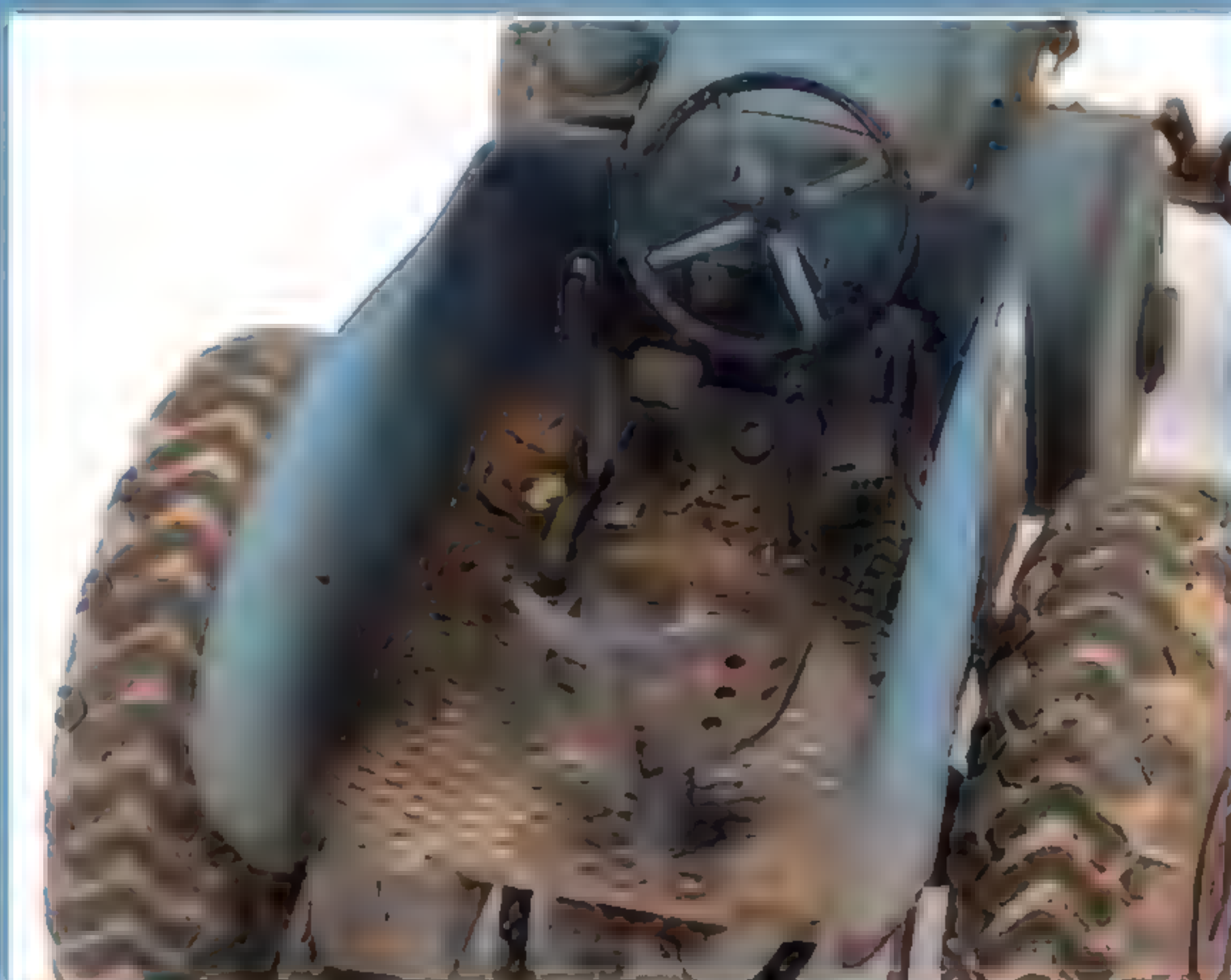
Dry pigments were added with a brush using Dark Red Ochre and Brown Iron Oxide, which were then fixed to the surface with Wash Oiled Earth applied by capillary action.



Parts of the body were now brought together.



Decals were fixed in position as indicated in the instructions.





The finished model. A simple and very attractive piece as a complementary vehicle in a diorama or as the main element of a small scene.



*"THE MOST
ASSEMBLED
OF THE BOX
INSTRUCTIONS
NOTABLE PR*





DEL WAS
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PROBLEMS..."





Curtain Raiser. Leopard 1 races ahead of Warrior 515 IFV. Participating in this opener (not seen here) was a Bergepanzer that assisted FV 4005 unload from its transporter on arriving at Tankfest.

TANKFEST 2024 SHOW REPORT

John Ham reports from Tankfest 2024
at the Bovington Tank Museum.

Tankfest opened with a roar as a Leopard 1, Warrior 515 IFV, and Bergepanzer raced around the Kuwait arena raising clouds of dust. Seven set-piece displays followed over the course of the day ranging from WWI to the finale Modern Day British Army display and battle.

All the Tank Museum's favourites were there: the second most famous tank in the world - M4A2 Sherman 'Fury', Panzer III, Matilda II, Comet A34, M3A1 Stuart, M24 Chaffee, Challenger 1, Daimler Armoured Car, Challenger TES Megatron.

Often, the greatest interest is reserved for the special vehicles and guest entries from private sources, sometimes highly unusual and unique vehicles: M3 Grant, M47 Patton, AMX-13, Centurion Mk 3 Royal Netherlands Army, T-34-85, Sexton, A27 Centaur, WW1 Liberty Truck, WW1 Replica Whippet, and new British Army AFVs Ajax and Ares. Inevitably, sadly a few of these expected aged machines did not manage to make it to Tankfest due to last minute breakdown or transportation problems like the IS-3M, Valentine IX DD, Centurion AVRE and T-54.

On the day of my visit, the weather was unseasonably cold, but the sights, sounds, smells and smoke of the show, and knowledgeable commentaries kept attention on the arena displays.

Highlights were the WWII tanks, Centurions together with FV 4005 which ran well in numerous arena circuits, and the new British Army Ajax and Ares AFVs. Once again a first class effort from the Workshop volunteers, Tank Museum and Tankfest personnel, Guest Vehicle owners, partner military museums, re-enactors, and British Army contributors. 🇬🇧

Whippet replica in static display depicting famous 'Musical Box' which charged a German artillery battery at the Battle of Amiens.





■ Handsome Aveling and Porter YLD Road Traction 'Clyde' 1914, tasked with unenviable mission of hauling manure trucks from horse lines at Aldershot. ■ Nicely restored US standardized Liberty Truck. Several thousand were built but most arrived too late to participate in WW1 operations. ■ Interwar and evolution of British armour. Vickers Mk IV, Matilda I, Matilda II, Churchill III. ■ A27 Centaur III guest vehicle, part of the Bannister Collection was converted to a Dozer for D-Day and restored back to a gun tank. Behind, Tankfest favourite A34 Comet. ■ Another guest M3 Grant complete with battle scars rescued from the Pirbright ranges where it was used to test German anti-tank guns. ■ 25 Pdr Sexton on Canadian Ram chassis, a welcome new guest AFV. ■ T-34-85, long lived design spanning WWII, Cold War and later, now a regular at Tankfest. ■ German battlegroup equipped with some captured Citroen truck and towed fieldgun enters arena in WW2 Battle.







Bullseye! Gunner's eye view. M4A2 'Fury' scores a hit on the Sd.Kfz. 251 Half-track in WWII Battle. Centurion 20 Pdr MK 3 guest from the Netherlands first seen last year at Tankfest. Another guest Centurion Mk 13 'Duchess' from Norfolk Tank Museum powers into the arena. Much anticipated recently restored ex- gate-guard big 183mm gun FV 4005 its turret now mounted on correct Centurion Mk 3 hull; behind guest Centurion Mk 3 of Royal Netherlands Army. Muscular Centurion ARV with a multi-coloured Stridswagen in the background. International Centurions on parade. From left: Swiss Panzer 55/60, based on Centurion Mk 7 and upgraded with L7 105mm gun; Swedish Stridswagen, previously Centurion Mk 3s re-designated Stridswagen 81; Centurion Mk 3 of Historic Collection of Royal Netherlands Army. M47 makes its guest appearance amongst the Cold War tanks. Cold War armour. From right Warrior IFV, Leopard 1, Challenger 1. Cold War armour. Massive M103 looms over broken down guest light tank AMX-13 from FARG Motorpool awaiting rescue. British Army CRARRV rear view shows some of the kit needed for breakdowns. It was put to good use when it recovered broken down Centurion 'Duchess' from the arena in Tankfest 2021. Controversial new General Dynamics Ajax AV(Tracked), light recce tank armed with 40mm cannon index vehicle of a new series of air portable family of specialist AFVs (others: Ares - APC, Apollo - repair vehicle, Atlas - ARV, Argus - engineers, Athena - command). Ares in two versions, APC (7+2) and Reconnaissance, Overwatch / Command. Both versions have 12,7mm remote weapons stations.





DEF MODEL

1:35 SCALE

ITEM NO. DW35014 - JGSDF LAV 4X4 WHEEL SET SAGGED FOR TAMIYA KIT

ITEM NO. DW35149 - PINK PANTHER SAS DESERT CAR SAGGED WHEELS SET FOR TAMIYA / ITALERI KITS

DEF Model has sent along two 1:35 scale resin wheel replacement sets.

The first is a set of four wheels for the Tamiya JGSDF LAV 4x4 Wheel Set. The kit supplies plastic wheel hubs and vinyl tyres.

Raised "Bridgestone" lettering is cast onto the tyre sidewalls and the tread pattern is crisply recessed.

The next set of wheels is designed for Tamiya's or Italeri's 1:35 scale Pink Panther Land Rover. Tamiya's kit wheels are injection moulded plastic and the DEF wheels look very crisp and detailed in comparison. The kit wheels are supplied as inner and outer halves, so the one-piece replacement wheels will eliminate any centerline join and seam lines. Separate parts are supplied for the inner section of the wheel hubs. Different parts are offered for the Tamiya and Italeri kits.

The tyres in both sets are subtly bulged and flattened, and casting quality is perfect. Self-adhesive die-cut masks are offered to make painting easier. You may choose to use the masks to either paint the tyre first or the wheel hub first.



DEF MODEL

1:48 SCALE

ITEM NO. DW48009 - US M1240A1 M-ATV SAGGED WHEEL SET FOR RFM KIT

ITEM NO. DW48010 - BRITISH AUSTIN K2 TRUCK SAGGED WHEEL SET 1 (DUNLOP) FOR TAMIYA KIT

ITEM NO. DW48011 - BRITISH AUSTIN K2 TRUCK SAGGED WHEEL SET 2 (INDIX) FOR TAMIYA KIT

Next up are three resin 1:48 scale wheel replacement sets.

The first is a five-wheel (including spare) US M1240A1 M-ATV Sagged Wheel Set for the RFM kit. The wheels are marked A, B and S, so you won't get the directions of rotation or the spare tyre mixed up.

As with all the DEF Model tyres reviewed here, detail is crisp and convincing. These will be a welcome upgrade for anyone building the 1:48 scale RFM Oshkosh.

DEF Model has also released two wheel sets for the Tamiya 1:48 scale Austin K2 Truck. One of these supplies Dunlop tyres and the second set is for India tyres.

Once again, the tyres are subtly bulged and flattened

All of these replacement wheel and track releases are produced to the highest standard and should be a pleasure to use.



Highly Recommended

Thanks to DEF Model for the samples www.defmodel.com

Brett Green



CRUSADER VS M13/40 NORTH AFRICA 1941-42

BY DAVID GREENTREE
OSPREY DUEL 137
ISBN 978 1 4728 6109 2

Operation Crusader; 22 Armoured Brigade with Crusaders of 2 Royal Gloucestershire Hussars leading, charge Italian infantry and anti-tank guns at Bir el Gobi; then 'Ariete' M13/40s counterattack from the flanks. More Crusaders are lost to anti-tank and gun-truck fire. Taking a beating, 22 Armoured Brigade retreated. For the DAK and Corpo d'Armata Manovra (132^a Divisione corazzata 'Ariete', 'Trieste' motorized division, and later 'Littorio' armoured division) these were typical tank fighting tactics in North Africa. Technically, the Crusader and M13/40 was evenly-matched.

The Crusader was fast, but its 2-pdr was becoming ineffective, and it was mechanically unreliable. The M13/40 had a better 47mm gun firing both AP and HE shot until the up-gunned 6-pdr Crusader III arrived; Italian M tanks remained underpowered and slow even with the similar M14/41's up-rated engine.

Early M13/40s lacked radios hampering command and control.

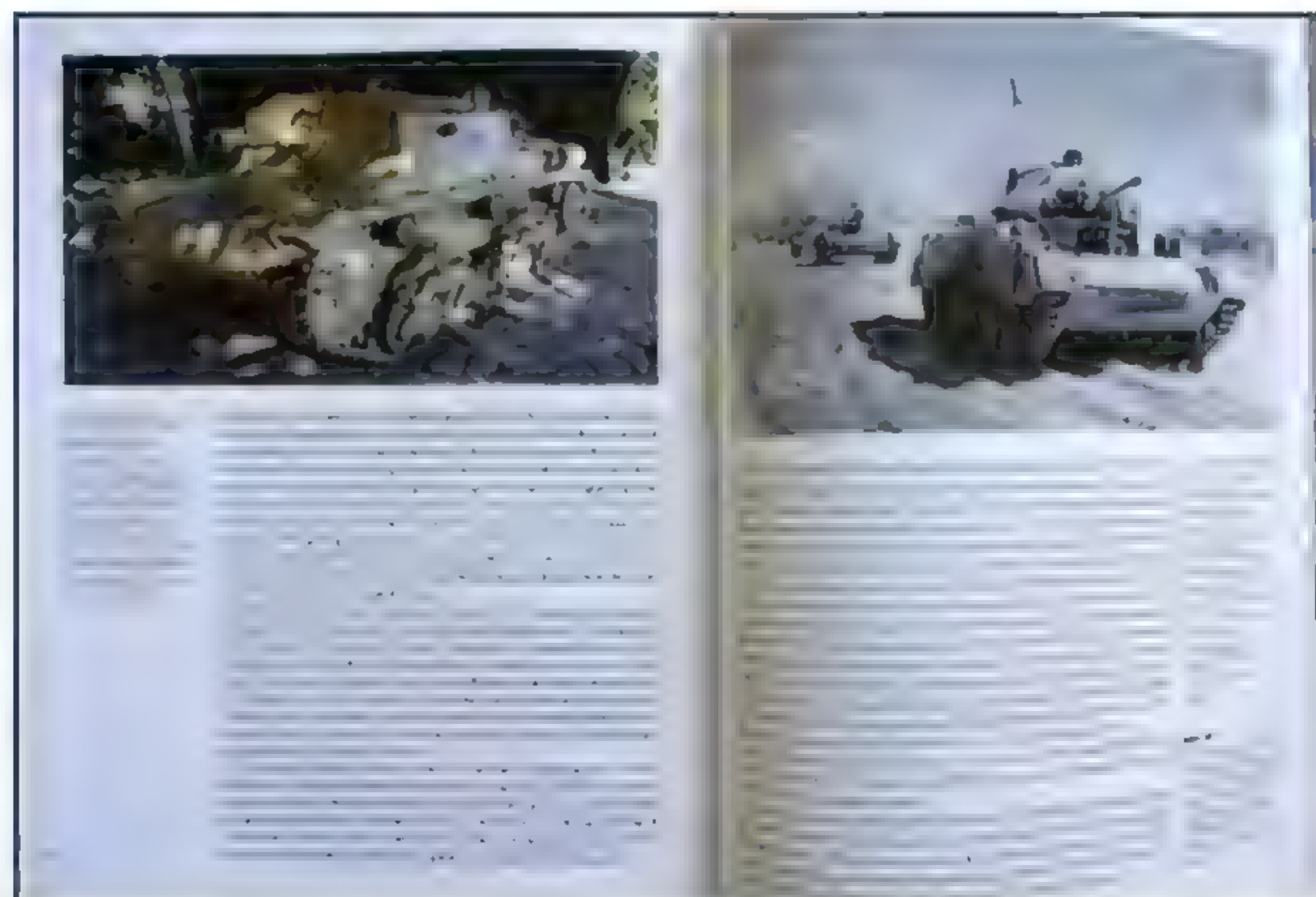
Other factors also determined battlefield effectiveness: crew training, morale, fuel and ammunition supply along lengthy desert supply lines. Three tank battles are examined: Bir el Gobi; the Gazala battles for the British infantry boxes where 'Ariete' guns and tanks fought off 2 and 24 Armoured Brigades; and Second Battle of El Alamein. By then the field artillery and anti-tank guns of the depleted and fuel-starved Axis tanks and Semoventi SPG counterattacks could only delay Montgomery's Eighth Army-equipped Grants, Shermans and Crusader IIIs.

As Operation Supercharge got underway, Rommel withdrew; 'Littorio' was destroyed and 'Ariete' was assigned rear-guard. Little of 'Ariete' remained by the time of the Italian surrender in Tunisia in 1943. Photos, maps and eye catching artwork.

Recommended.

Thanks to Osprey for the sample www.ospreypublishing.com

John Ham



STUART TANK, VOL. 2 THE M5, M5A1 AND M8 VERSIONS IN WORLD WAR II LEGENDS OF WARFARE: GROUND

BY DAVID DOYLE
SCHIFFER BOOKS
ISBN: 978-0-7643-5823-4

ROMANIA 1944

The Turning of Arms against Nazi Germany



ROMANIA 1944 THE TURNING OF ARMS AGAINST NAZI GERMANY

BY GRANT HARWARD
OSPREY CAMPAIGN 404
ISBN 978 1 4728 6164 1

Romania was a staunch ally of Nazi Germany, providing at peak 464,000 soldiers to the invasion of Russia, even prosecuting Hitler's racial eradication policies. But, as German Army Group South Ukraine was pushed back towards Romania by a resurgent Red Army the relationship frayed.

The spring 1944 first Soviet Iași- Chișinău offensive failed to make progress, even though aided by US bombing of the Ploiești oilfields and Romanian railways.

By summer, the reinforced Red Army launched the second Iași- Chișinău offensive; two Soviet Fronts prised apart German from Romanian armies, concentrating forces and Sixth Tank Army's tanks against weaker Fourth and Third Romanian armies. During the crisis as Soviet 2nd Ukrainian Front broke through at Iași and 3rd Ukrainian Front cut-off Chișinău, the king of Romania and loyal officers deposed conducător (leader) Marshal Antonescu in a well-executed coup, disarming the German Bucharest

garrison, and foiling a German counter-coup attempt, and attack by air-landed Brandenburger paratroops. The German Sixth Army was encircled and destroyed. Armistices were signed between western Allies and USSR, and Romania separated from the Axis. Fighting took place at Ploiești between Romanian and German troops, but elsewhere German units were disarmed with little violence and taken prisoner.

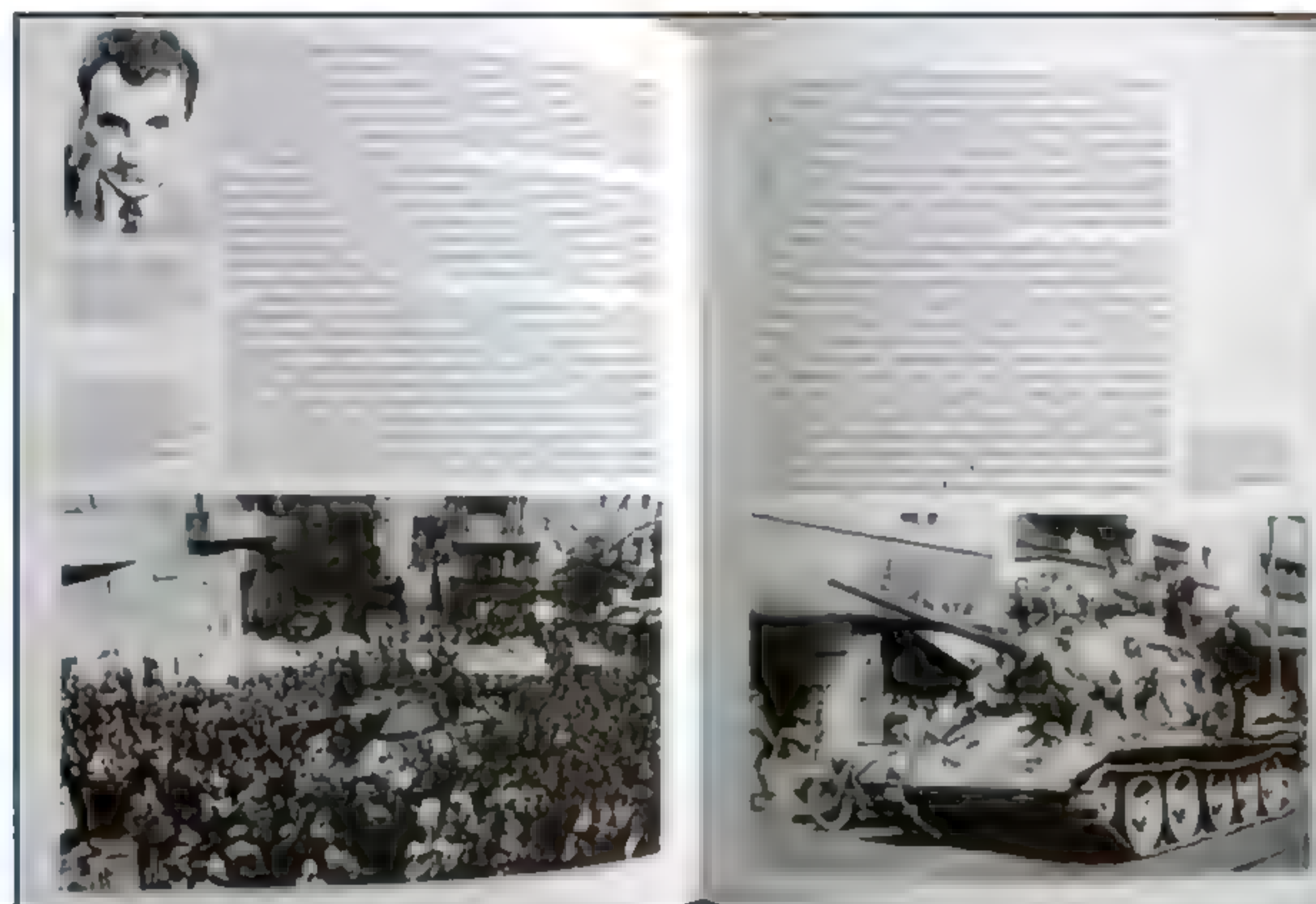
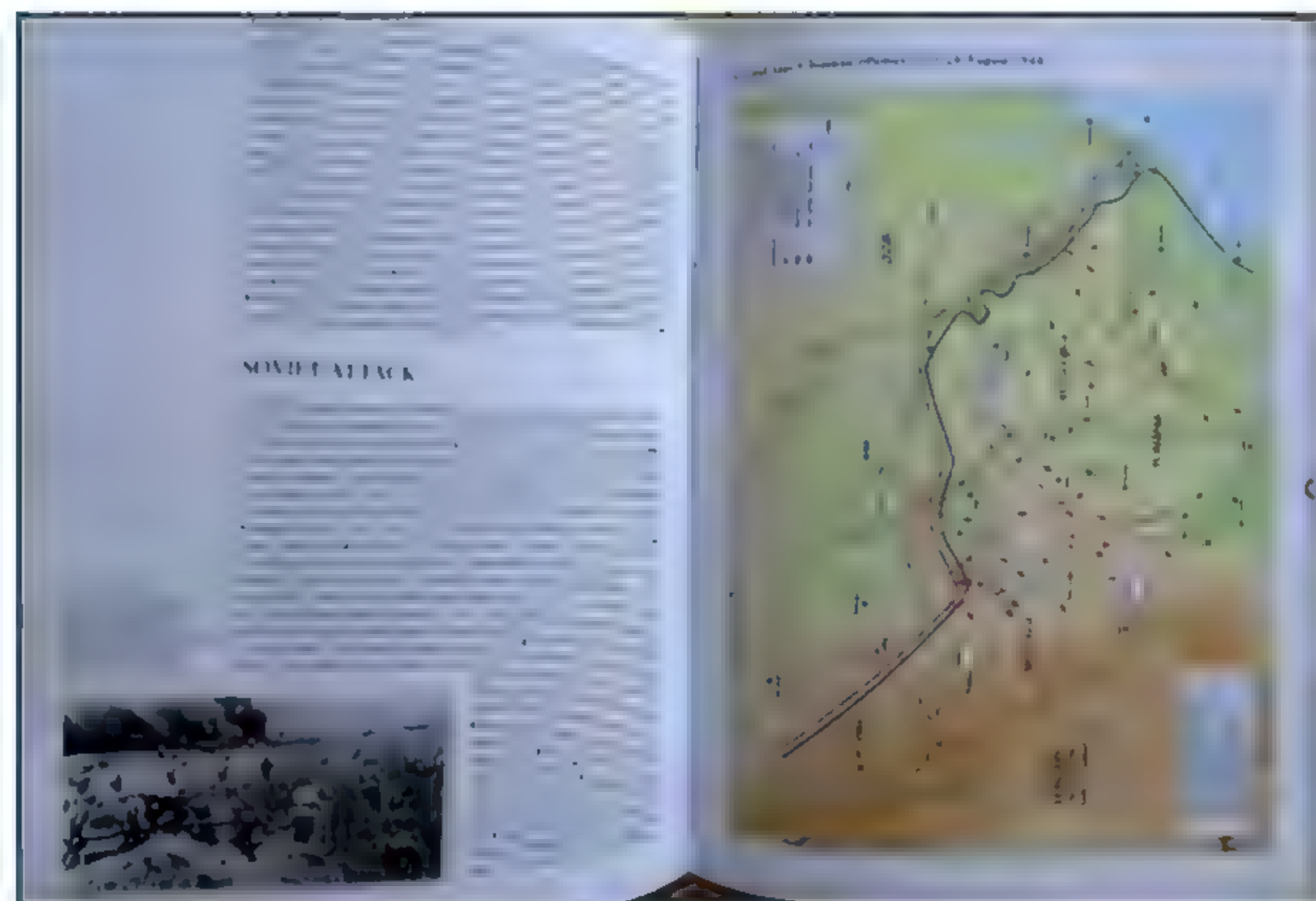
Hungarian Second Army supported by the Turán tanks and Zrinyi SPGs of Hungarian 2nd Armoured Division and German Sixth Army remnants attacking through the Carpathians into southern Transylvania, was defeated by Romanian and Soviet forces.

A sometimes page-turning narrative of an infrequently covered last months of war in Romania, recommended.

Recommended.

Thanks to Osprey for the sample www.ospreypublishing.com

John Ham



This book covers the later Stuart series of Light Tanks. The M3 Stuart - as it was known to the British - evolved from a series of Light Tanks developed in the 1930s. It came in several variations, all using the same suspension, engine and drive which were well proven and reliable. Their 37mm guns and armour protection were adequate when first introduced though later outclassed. But demand for their radial engines meant something new was needed.

The solution was to use two car engines coupled with an automatic transmission. These were mated to a new hull with a longer lower part, a raised rear deck and hatches for the driver and co-driver on top. Suspension was unchanged. Light Tank M5 used a turret much the same as the M3A1 so the radio was in the hull. They were replaced by the

M5A1 version with the turret from the M3A3 which had a rear bustle for the radio. Both versions used the 37mm main gun with coaxial, antiaircraft and hull .30" calibre machine guns.

To support these tanks the Howitzer Motor Carriage M8 had an open-top turret with a short-barrel 75mm howitzer. This was as wide as the hull which meant that the driver and co-driver hatches were placed on the sloping hull front. A .50" machine gun was fitted to the back of the turret for use against aircraft.

M5s were first used in North Africa from late 1942 and were only used by the US. M5A1 were first used alongside them later replaced them with some being passed to Lend-Lease as were a small number of M8. By the war's end they were being phased out and replaced by the more

capable M24 Chaffee.

All the basic versions are described and shown using large, clear period black and white photos showing the design changes made during production and also photos of surviving tanks. Over half the book covers use in action with plenty of photos.

As with the earlier book on the M3 series, this a very useful reference source for modellers and anyone interested in WW2 tank design. David Doyle has found an excellent collection of photos and backs them up with details of the series' development in concise, readable text and extensive captions.

Recommended.

Thanks to Schiffer Publishing www.schifferbooks.com

Peter Brown



THE SEVENTY PERCENT TIPPING POINT

We all do it. We get so very close that it's almost there, then we lose interest for whatever reason and the build stalls. Now begins the hard part, the part we all dread - will I or won't I? I mean you've put so much effort into it, but something is just not right be it the paint or the build. Do you go back and start again or do you press on and somehow finish or maybe put on the shelf of doom. It's a vexing question and I find myself in that dark place right now with my current Scammell build. I like it but boy, has it taken a lot of time, hours of research, scratch building, figuring out how things work, figure modifications, fabricating a base and dust protection cover, the list is endless, and now, right near that Seventy percent phase the Big Stall has gripped me yet again. I think I'm honestly creating ways not to complete the model in its entirety. I've been down this road before and I think in part in this instance it's due to the weather, well that's my story and dam it, I'm sticking to it over the last few weeks it's been, a surprise early

spring, and I honestly don't like spending a whole bunch of time at the bench as it's been so nice outside. One of the ways I get motivated again is to do a deep clean the bench and workshop, throw out the trash and start afresh, there's something satisfying about a clean work area that strangely the cleansing prompts my interest again. Another is doing something else on the build. This build it includes a tank, a motorcycle, figures a trailer and the cab, not to mention all the other bit and pieces that will accompany the total build so I tend to swap around the painting on different painting aspects of the build. Still, I look at my stash from time to time and daydream of future builds. But, modellers in general are like that aren't they? We tend to dream. The real problem with that is day dreaming doesn't get anything done Anyway enough for this month. And I'm late for my bus.

*Until next time
Luke Pitt*



REVIEWS

DOGFIGHT WORKSHOP 6-622 FORD GTBS BURMA JEEP ITEM NO. 48A09

I like different models when I can find them. This release from Dogfight Workshop ticks all the boxes in that regard but first, a little history on the type.

The truck's official title was the GTB-622 1.5-ton cargo truck. Between June 1942 and the end of the war, Ford produced some 15,000 vehicles of this type at its Edgewater Plant in New Jersey. The G-622 was originally developed for the US Army, but there were some who did not believe it suited their purposes. The Army preferred something heavier and larger with more cargo carrying capacity. The basic version of the G-622 weighed 7,250 lbs and could carry a payload of 3,000 lbs, which was comparable to some much larger trucks. The vehicle measured 16.40 feet in length, 7.28 feet in width with the height to the top of the engine hood being 4.49 feet.

Fitted with a Ford Model G8T six-cylinder L-Head inline gasoline engine it developed 90.7 bhp at 3,400 rpm. The so called Burma Jeep could reach speeds up to 45 mph. It was fitted with a four-speed gear box and a two-speed transfer case with a fuel consumption of nine miles to the gallon and an operational range of 200 miles with a full tank on normal roads. Apart from the basic GTB truck version, the vehicle was produced in four other variants. This included the GTBA truck, GTBS bomb service truck and the GTBC, an improved bomb service truck, all of which were used by the US Navy. The fourth version was designated GTBB which was a wrecker truck for recovery service. Both bomb service versions were fitted with cranes which may account for the discrepancy seen in some reference works concerning the weight of the vehicles.

The bomb version trucks were used by ground crews to rearm aircraft operating from the airfields on islands recaptured from the Japanese. They were ideal for such work, and wartime photographs show them towing trolleys of bombs to the waiting aircraft. The vehicle was fitted with either a Gar Wood or Braden MU-6 type winch mounted on the front. Apart from the driver one or two men would ride with the vehicle to load the cargo. It was never armed, and the weapons carried were the rifles of the crew. All models, except the GTBS version, had dual rear wheels.

The kit is presented in a brown box with a CAD side view adorning its face. When opening the box, one is greeted with a vast array of high end 3d printed parts. There are no print lines in evidence anywhere and is indicative of what I've come to expect from this company. In a word, the presentation and texture of the printed parts is superb. No instructions are included but they may be downloaded from their website.

Another hallmark of the Dogfight Workshop kits is the complete nature of the product not only is a detailed engine supplied but also bombs and the accompanying trolleys are provided for. Make no mistake, this is a high-quality product only let down by the lack of decal and marking options. If you like different and let's face it, the modelling world does not need another Tiger I or T-34, this then may be something for you. Besides it looks so cool!

Thanks to Dogfight Workshop for the sample www.dogfightworkshop.pl
Highly Recommended

Luke Pitt

Luke Pitt hosts MMI's examination of the growing world of 1:48 scale military models, figures and accessories.





RESKIT

MJ-4 JAMMER MHU-83 B/E EARLY LIFT TRUCK ITEM NO. RSK48-0006

I have heard quite a lot of praise for Reskit 3d prints over the years but this is the first time I've had a chance to review their product. I must say it lives up to the hype. It is exquisitely printed and is flawless in presentation and completeness.

The MHU-83 is an aerial lift truck that lifts and secures munitions, weapons, rocket launchers, fuel tanks and other items weighing up to 7,000 pounds onto the pylons of various tactical aircraft.

It is a self-propelled, hydraulically operated lifting device that positions the loads using hydraulic power that is supplied by a piston pump coupled to the diesel engine.

The kit is presented in a brown box with a CAD illustration adorning the box lid.

Thirty-three high quality prints are included with most enclosed in 3d printed cages that aids in non-transportation damage. An eight-page instruction leaflet is provided for with nine clear and concise construction steps. The instructions are Tamiya like in quality which is high praise indeed.

A wonderfully printed decal sheet is included with all the stencils and instrument dials included.

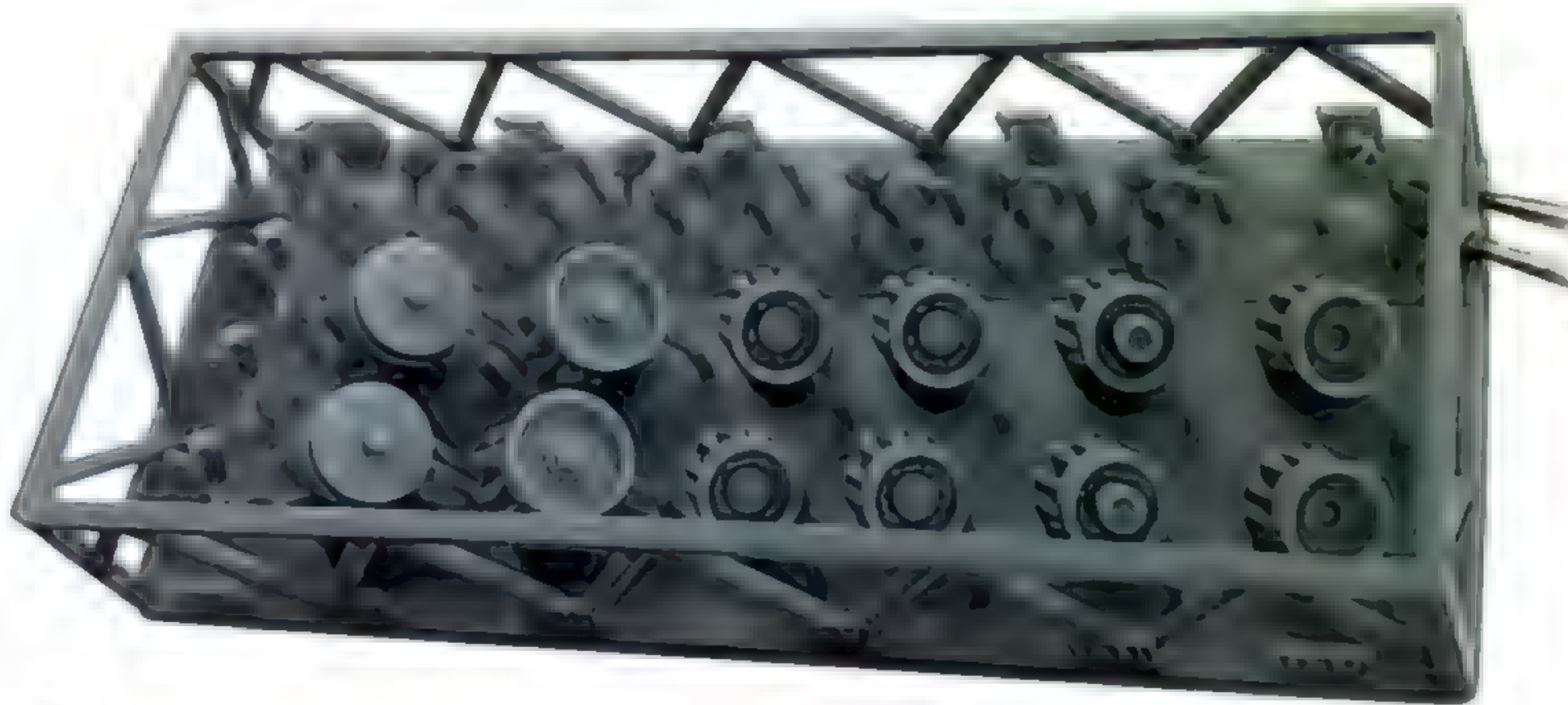
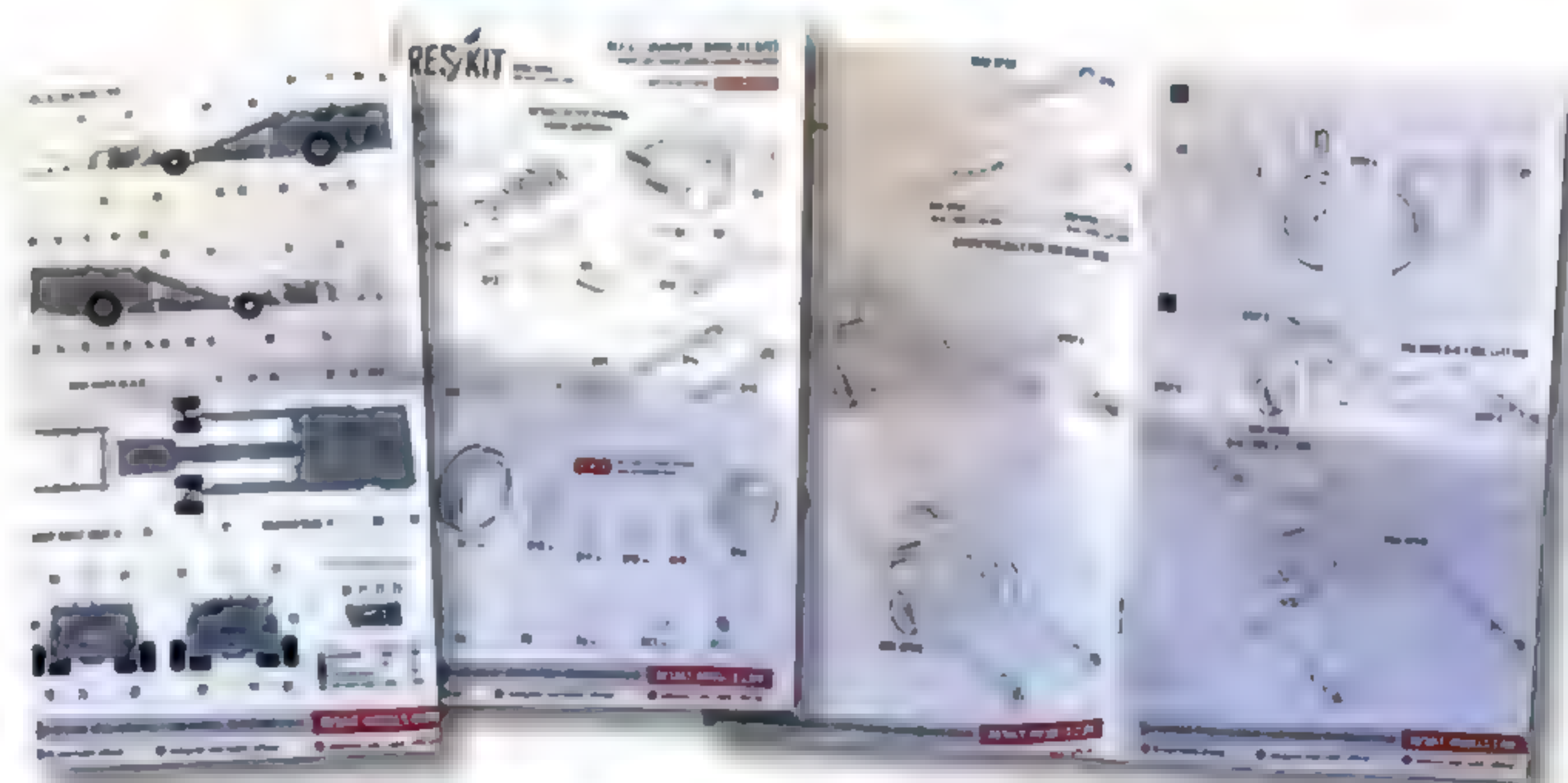
It is the little things that make a great product and in this case the main drive unit has all the grille work as see through and in scale, the provision for what is behind those grilles is also provided for if painted in a high contrast fashion, the inclusion of a high quality instruction sheet and colour guide to the high quality decals sheet, I mean really, even the tyres have tread on them!

If this tickles your fancy you won't find a better incarnation of this machine. If this is anything to go by, I can't recommend this firm highly enough. Impressed you might say? absolutely!

Thanks to Reskit for the sample www.reskit-models.com

Highly Recommended.

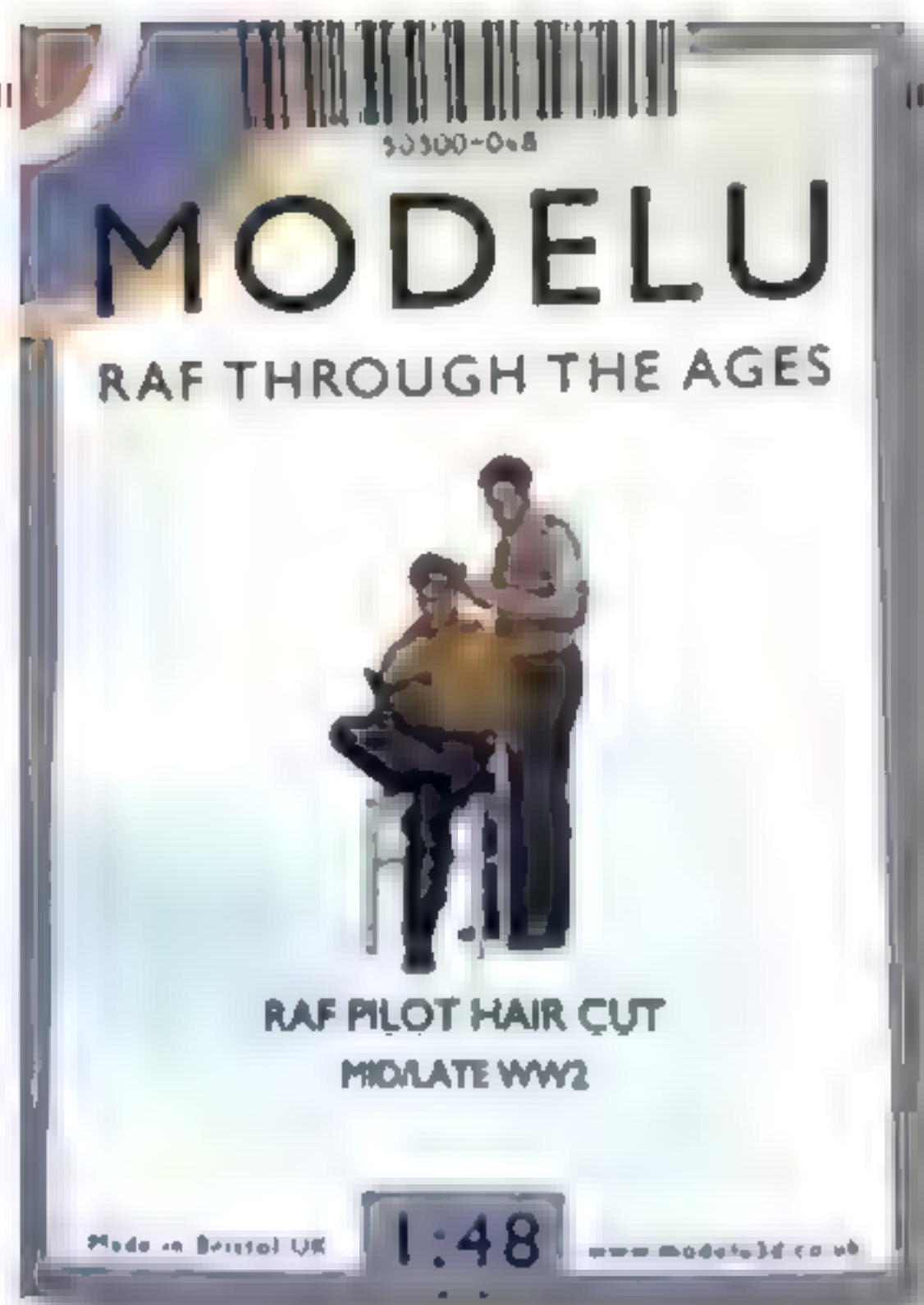
Luke Pitt



H3 MODELS

GERMAN PANZER CREW SET ITEM NO. HS48068

Some in the 1:48 scale modelling community have told me there are not enough high quality 1:48 scale figures available in 1:48 scale. I often scratch my head when I hear this. Sure, ten years ago that was clearly the case, but now? Sorry I beg to differ. All you need to do is look. I have often reviewed H3 Models in the past and find the posing, the fidelity of detail and overall quality to be above reproach. These two are great examples of that - the relaxed pose which is difficult to do and the prints are astounding. Yes, they are 3d printed but the care thought the designer has but into the stem placement makes them a joy to work with when removed from the print stems. If you haven't yet purchased some of H3 Models' quite extensive range, I suggest you do. You won't be disappointed. Thanks to H3 Models for the sample www.h3models.com
Highly Recommended.
Luke Pitt



MODELU

RAF THOUGH THE AGES - RAF PILOT HAIRCUT ITEM NO. 50300-048

This is another great example of 3D printed figures from Modelu. In this instance, it is a pilot sitting having the mandatory short back and sides trim while reading a magazine while the other cuts his hair. This could be used in an outdoor setting placed next to a Spitfire or Hurricane. My only gripe is some of the print stems are connected to the face of the sitting figure which in my opinion is an absolute NO NO on any 3d printed figure. Admittedly there are only two but cleaning up a face on any figure can be problematic. Otherwise these two are a great addition to our figure choices. Thanks to Modelu for the samples www.modelu3d.co.uk
Recommended.
Luke Pitt





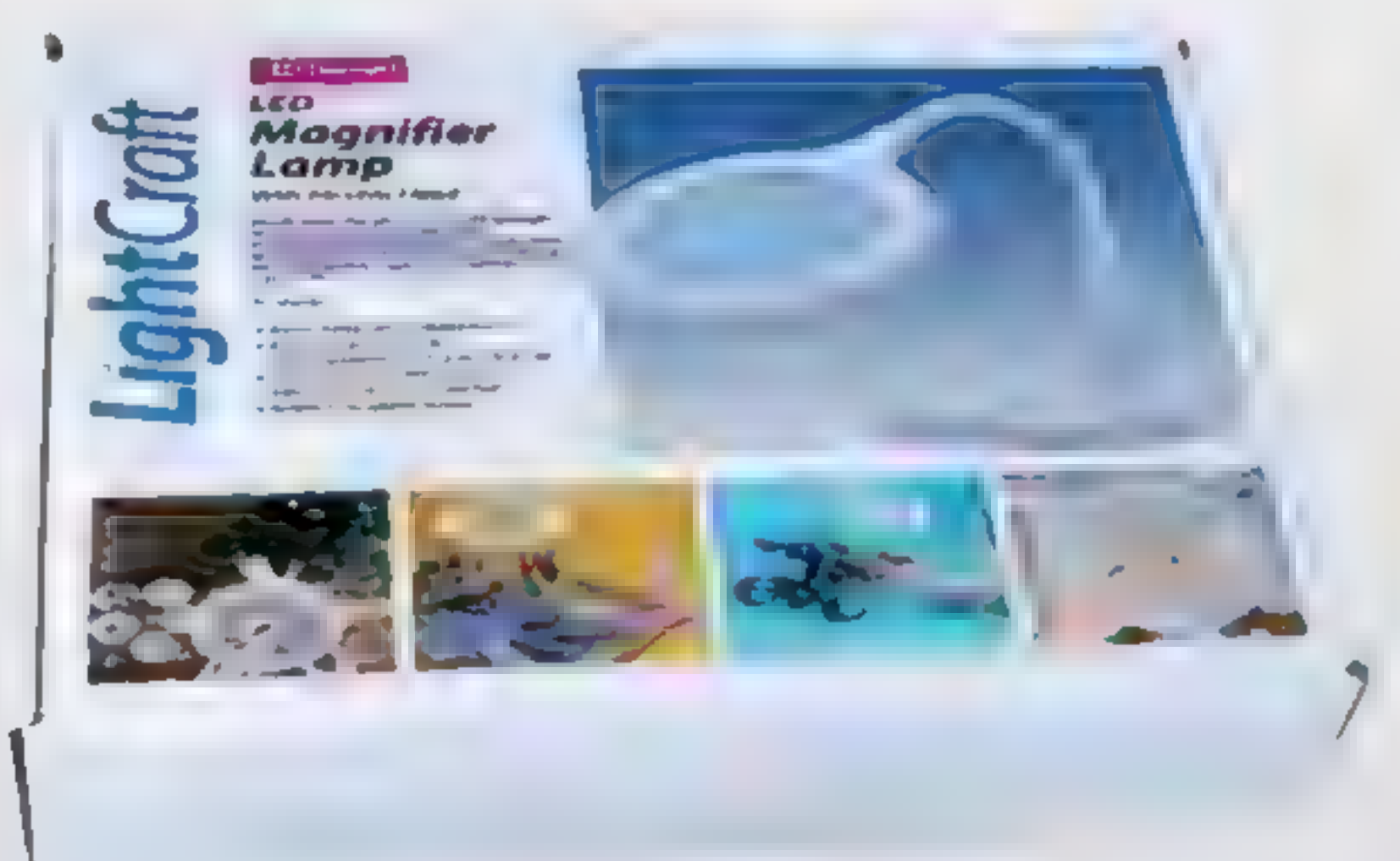
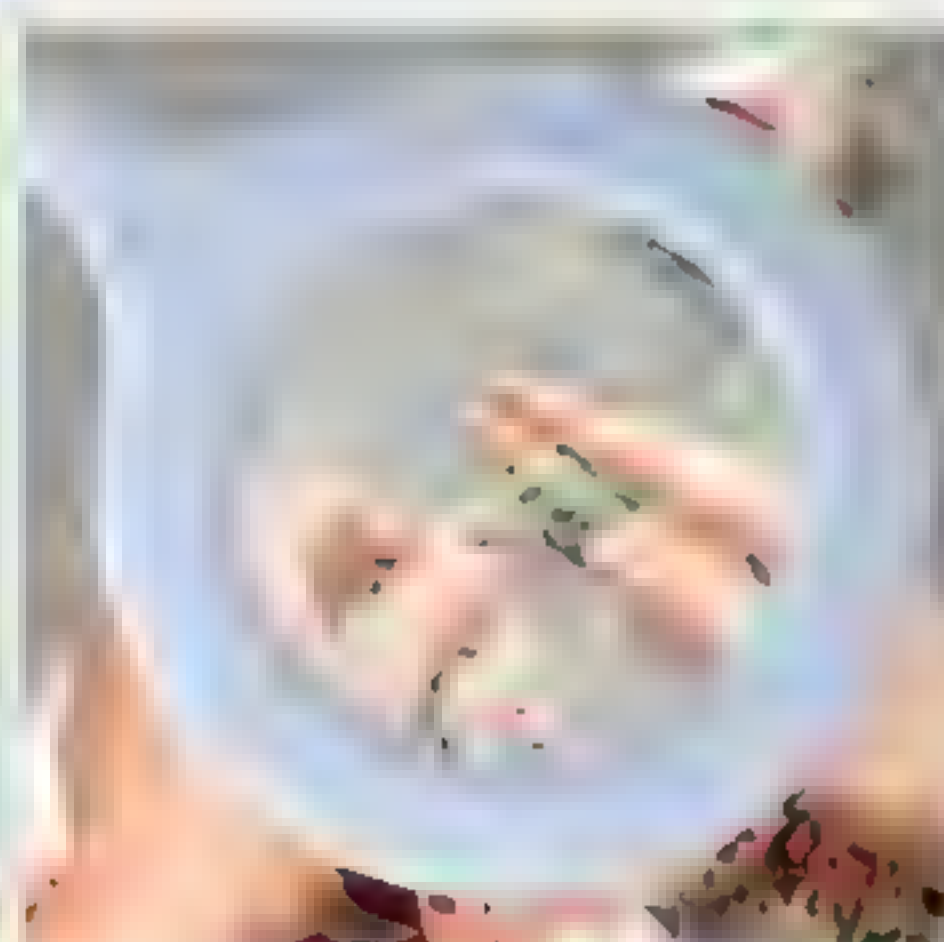
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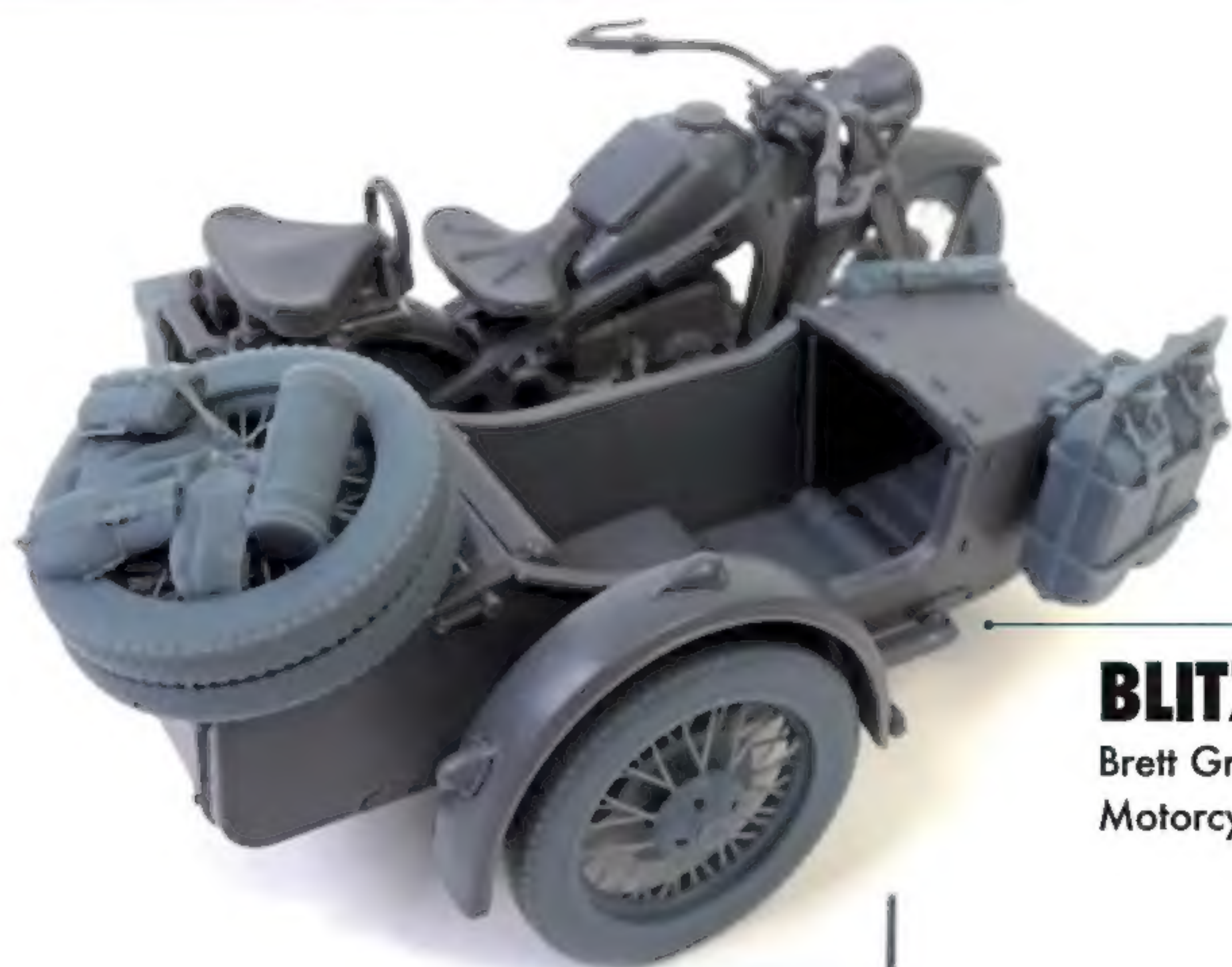
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Next Issue

On sale 5th December



FOR YOUR SAFETY

Don't forget, when using solvents such as glues, paints, thinners and cleaning agents, always ventilate your work area thoroughly and wear a face mask.

When using power tools, side cutters or any tool that can suddenly break or create high-speed airborne particles, wear approved eye protectors with hard, clear lenses. Please always model in safety!



BLITZ BUGGY Pt. 2

Brett Green completes his Tamiya 1:35 KS600 Motorcycle and Sidecar with a crew and base.

DOUBLE TROUBLE

Two big guns by Jim Turner.



THE ROAD TO CARENTAN

Matt Wellhouser's 1:16 scale D-Day diorama.



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MMI Website; Doolittle Media Web Team

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Email; tim@selectps.com

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www.modelmilitary.com
Tel; +44 (0)1525 222573
Email; enquiries@doolittlemedia.com

Editorial enquiries;
Email; editor@modelmilitary.com

Advertising enquiries;
Tel; +44 (0)1525 222573
Email; alan@doolittlemedia.com

Subscription enquiries;
Tel; +44 (0)1525 222573
Email; enquiries@doolittlemedia.com

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EXPERIMENTATION AND TRIALS GROUP LIVE FIRE EVENT

The Experimentation and Trials Group recce-strike live fire event, held in Imber Village on Salisbury Plain Training Area, and using soldiers from Alma Company 2nd Battalion The Royal Yorkshire Regiment, is an experimentation and explanation of how the Army might integrate, train, and fight in the future. Inspired by ongoing wars in Ukraine and

Gaza, it focuses on the integration of uncrewed aerial systems (UAS) and drones at the battlegroup, company, and platoon levels, and termed the Next Generation Combat Team (NGCT). It considers the increased complexity of operating in, commanding, and controlling, a three-dimensional battlespace.

It stresses that interconnectivity between

soldiers is vital to success, to enable much quicker dynamic decision making; as well as a requirement for a significant increase in company and platoon level kit and equipment to include UAS and counter-UAS equipment including combat shotguns, DroneShields and more. ■





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Insignia decals are included.

Actual size ▶

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★Choose helmet or cap for NCO figure.

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★Images show assembled and painted kit.
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Check Tamiya's homepage for the latest releases! www.tamiya.com



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1/35
SCALE

Evolution at your Fingertips

Newly developed based on extensive research of the actual tank!

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Length: 320mm, width: 110mm

Choose between head sections with helmet and beret.

Decals recreate German flags and 6 different sleeve rank insignia.

Comes with three marking options.

Features snap-together assembly type tracks.



Photo-etched parts for engine grille mesh and turret-side basket sections.

Detail-Up Parts

1/35 Scale German Leopard 2 A7V Metal Gun Barrel (Item 12694)

The A7V gun barrel is recreated with a precise aluminum part for a fantastic finish.



Mud flaps are depicted hung on the turret rear sides.

★Images show assembled and painted kit.
★Product may vary from images shown.

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